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BRYN MAWR COLLEGE.

PROGRAM
OF
GRADUATE COURSES.


1902.

BRYN MAWR COLLEGE

PROGRAM
OF
GRADUATE COURSES.

1902.

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1902.



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BRYN MAWR COLLEGE.

COLLEGE CALENDAR.

1902.

JANUARY.

Su.	M.	Tu.	W.	Th.	Fr.	Sa.
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1903.

JANUARY.

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JUNE.

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The present academic year will close with the Conferring of Degrees at eleven o'clock, on June 5th, 1902.

ACADEMIC YEAR 1902-03.

September 22nd.	Matriculation examinations begin.
September 26th.	Matriculation examinations end.
September 27th.	Registration of students. Halls of Residence open for students at three p.m.
September 29th.	Registration of students.
September 30th.	The work of the eighteenth academic year begins at a quarter to nine o'clock.
October 1st.	Examinations for advanced standing begin.
October 13th.	Examinations for advanced standing end.
November 10th.	Private reading examinations begin.
November 15th.	Private reading examinations end.
November 26th.	Thanksgiving vacation begins at one o'clock.
December 1st.	Thanksgiving vacation ends at nine o'clock.
December 6th.	Senior oral examination in French.
December 13th.	Senior oral examination in German.
December 22nd.	Christmas vacation begins at one o'clock.
January 6th.	Christmas vacation ends at nine o'clock.
January 12th.	Private reading examinations begin.
January 17th.	Private reading examinations end.
January 26th.	Half-yearly collegiate examinations begin.
February 2nd.	Matriculation examinations begin for candidates intending to enter the college at the half-year.
February 6th.	Collegiate and matriculation examinations end.
February 9th.	The work of the second semester begins at a quarter to nine o'clock.
February 10th.	Examinations for advanced standing begin.
February 22nd.	Washington's Birthday.
February 23rd.	Examinations for advanced standing end.
February 28th.	Senior oral examinations in French and German.
March 16th.	Private reading examinations begin.
March 21st.	Private reading examinations end.
April 4th.	Senior oral examinations in French and German.
April 8th.	Easter vacation begins at one o'clock.
April 16th.	Easter vacation ends at nine o'clock.
May 9th.	Senior oral examinations in French and German.
May 11th.	Private reading examinations begin.
May 16th.	Private reading examinations end.
May 19th.	Vacation.
May 20th.	Collegiate examinations begin.
May 29th.	Matriculation examinations begin.
June 2nd.	Collegiate examinations end.
June 3rd.	Matriculation examinations end.
June 4th.	Conferring of degrees and close of eighteenth academic year.

BOARD OF TRUSTEES.

PHILIP C. GARRETT,
President.

HENRY TATNALL,
Treasurer.

EDWARD BETTLE, JR.,
Secretary.

JOHN B. GARRETT, Rosemont.	HOWARD COMFORT, Philadelphia.
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EDWARD BETTLE, JR., Philadelphia.	RUFUS M. JONES, Haverford.
ALEXANDER C. WOOD, Cinnaminson, N. J.	

ACADEMIC APPOINTMENTS.

M. CAREY THOMAS, PH.D., LL.D., *President of the College and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877-78; University of Leipsic, 1879-82; Ph.D., University of Zürich, 1882; Sorbonne and the Collège de France, 1883; Dean of the Faculty of Bryn Mawr College and Professor of English, 1885-94.

CHARLOTTE ANGAS SCOTT, D.Sc., *Professor of Mathematics.*

Lincoln, England. Graduate in Honours, Girton College, University of Cambridge, England, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, 1880-84; lectured in connection with Newnham College, University of Cambridge, England, 1880-83; D.Sc., University of London, 1885.

HERMANN COLLITZ, PH.D., *Professor of Comparative Philology and German.*

Bleekede, Hanover, Germany. University of Göttingen, 1875-78; University of Berlin, 1878-81; Ph.D., University of Göttingen, 1878; Privatdocent in the University of Halle, 1885-86.

JAMES HARKNESS, A.M. (*Cambridge and London*), *Professor of Mathematics.*

Derby, England. Major Scholar, Trinity College, University of Cambridge, England, 1882; Graduate in Honours (8th Wrangler) in the Cambridge Mathematical Tripos, 1885; Mathematical Exhibitioner, London University Intermediate Arts Examination, 1885; Mathematical Scholar, London University B.A. Examination, 1887.

MARY GWINN, PH.D., *Professor of English.*

Studied at the University of Leipsic, 1879-82; University of Zürich, 1882; Sorbonne and Collège de France, 1883; Fellow in English, Bryn Mawr College, 1885-87, and graduate student, 1887-88; Ph.D., Bryn Mawr College, 1888.

CHARLES McLEAN ANDREWS, PH.D., *Professor of History.*

A.B., Trinity College, 1884; Fellow, Johns Hopkins University, 1883-89; Ph.D., Johns Hopkins University, 1889.

GEORGE A. BARTON, PH.D., *Associate Professor of Biblical Literature and Semitic Languages.*

A.B., Haverford College, 1882, and A.M., 1885; studied under the direction of the American Institute of Hebrew, 1885-86; Harvard University, 1888-91; Thayer Scholar, Harvard University, 1889-91; A.M., Harvard University, 1890; Ph.D., Harvard University, 1891.

ARTHUR STANLEY MACKENZIE, PH.D., *Professor of Physics.*

A.B., Dalhousie University, 1885; Tutor in Mathematics, Dalhousie University, 1887-89; Graduate Scholar, Johns Hopkins University, 1889-90; Fellow in Physics, Johns Hopkins University, 1890-91; Ph.D., Johns Hopkins University, 1894.

THOMAS HUNT MORGAN, PH.D., *Professor of Biology.*

B.S., State College, Kentucky, 1886, and M.S., 1888; Graduate Scholar, Johns Hopkins University, 1888-89; Fellow in Biology, Johns Hopkins University, 1889-90; Ph.D., Johns Hopkins University, 1890; Adam T. Bruce Fellow, Johns Hopkins University, 1890-91.

JOSEPH W. WARREN, M.D., *Associate Professor of Physiology.*

A.B., Harvard College, 1871; University of Berlin, 1871-72; University of Leipsic, 1872-73; University of Bonn, 1873-79; M.D., University of Bonn, 1880; Assistant and Instructor in Physiology, Harvard Medical School, 1881-91; Lecturer in Medical Department of the University of the City of New York, 1885-86; Lecturer in Physiology, University of Michigan, 1889.

ELMER P. KOHLER, PH.D., *Professor of Chemistry.*

A.B., Muhlenberg College, 1886, and A.M., 1889; Johns Hopkins University, 1889-91; Fellow in Chemistry, Johns Hopkins University, 1891-92; Ph.D., Johns Hopkins University, 1892.

LINDLEY MILLER KEASBEY, PH.D., R.P.D., *Professor of Political Science.*

A.B., Harvard University, 1888; A.M., Columbia College, 1889; Ph.D., Columbia College, 1890; University of Berlin, 1890-91; University of Strassburg, 1891-92; *Rerum Politicarum Doctor*, University of Strassburg, 1892; Assistant in Economics, Columbia College, and Lecturer on Political Science, Barnard College, 1892; Professor of History, Economics, and Political Science, State University of Colorado, 1892-94.

LOUIS EMIL MENDER, PH.D., *Professor of Romance Philology.*

A.B., Mississippi College, 1888, and A.M., 1890; Professor of Latin and German, Mary Le Grand Institute, Vicksburg, Miss., 1888-90; Fellow in Romance Languages, Johns Hopkins University, 1892-93; Ph.D., Johns Hopkins University, 1893; Instructor in Romance Languages, Johns Hopkins University, 1893-94; Associate in Romance Languages, Johns Hopkins University, 1894-97.

FONGER DEHAAN, PH.D., *Associate Professor of Spanish.*

Leeuwarden, Holland. Ph.D., Johns Hopkins University, 1895; Instructor in Modern Languages, Lehigh University, 1885-91; Fellow in Romance Languages, Johns Hopkins University, 1893-94; Assistant in Romance Languages, Johns Hopkins University, 1893-95; Instructor in Romance Languages, Johns Hopkins University, 1895-96; Associate in Romance Languages, Johns Hopkins University, 1896-97.

ARTHUR LESLIE WHEELER, PH.D., *Associate Professor of Latin.*

A.B., Yale University, 1893; Scholar and Student in Classics, Yale College, 1893-96; Ph.D., Yale University, 1896; Instructor and Tutor in Latin, Yale College, 1894-1900.

JOSEPH CLARK HOPPIN, PH.D., *Associate Professor of Classical Art and Archaeology.*

A.B., Harvard University, 1893; American School at Athens, Winter Semester, University of Berlin, Summer Semester, 1893-94; University of Munich, 1894-95; American School at Athens, Winter Semester, University of Munich, Summer Semester, 1895-96; Ph.D., University of Munich, 1896; American School at Athens, 1896-97; Lecturer on Greek Vases, American School at Athens, 1897-98; Instructor in Greek Art, Wellesley College, 1898-99.

HENRY NEVILL SANDERS, A.B., *Associate Professor (elect) of Greek.*

A.B., Trinity University, Toronto, 1894; Fellow in Greek, Johns Hopkins University, 1897-98; Lecturer in Greek, McGill University, 1900-02.

JAMES H. LEUBA, PH.D., *Associate in Psychology and Education.*

B.S., Neuchâtel, Switzerland, 1886; Ph.B., Ursinus College, 1888; Scholar in Psychology, Clark University, 1892-93; Fellow in Psychology, Clark University, 1893-95; Ph.D., Clark University, 1896.

FLORENCE BASCOM, PH.D., *Associate in Geology.*

A.B., University of Wisconsin, 1882, B.Sc., 1884, and A.M., 1887; Johns Hopkins University, 1891-93; Ph.D., Johns Hopkins University, 1893; Assistant in Geology and Instructor in Petrography, Ohio State University, 1893-95.

ALBERT HAAS, PH.D., *Associate in German Literature.*

Herzberg, Schweinitz, Prussia. University of Berlin, 1891-92, and 1893-95; University of Geneva, 1892; Ph.D., University of Berlin, 1895; Sorbonne and University of Bonn, 1896; University of Freiburg, 1897.

WILMER CAVE FRANCE, PH.D., *Associate in Greek.*

Tysley, Worcestershire, England. Girton College, University of Cambridge, England, 1888-92; Classical Tripos, 1892; Fellow in Greek, Bryn Mawr College, 1892-93; Fellow in Latin, University of Chicago, 1893-94, and Fellow in Greek, 1894-95; Ph.D., University of Chicago, 1895; Reader in Greek and Latin, University of Chicago, 1895-96.

ALBERT P. WILLS, PH.D., *Associate in Applied Mathematics and Physics.*

B.E.E., Tufts College, 1894; studied at Clark University, 1894-97; Ph.D., Clark University, 1897; Universities of Berlin and Göttingen, 1898-99.

ALBERT SCHINZ, PH.D., *Associate in French Literature.*

Neuchâtel, Switzerland. A.B., University of Neuchâtel, 1888, and A.M., 1889; Licentiate in Theology, 1892; Student, University of Berlin, 1892-93; University of Tübingen, 1893; Ph.D., University of Tübingen, 1894; Sorbonne and Collège de France, 1894; Privatdozent, University of Neuchâtel, 1896-97; Instructor in French, Clark University, 1897-98; Instructor in French, University of Minnesota, 1898-99.

DAVID IRONS, PH.D., *Associate in Philosophy.*

A.M., University of St. Andrews, 1891; Ramsay Scholar, University of St. Andrews, 1891-92; Ferguson Scholar in Philosophy and Fellow in Philosophy, Cornell University, 1892-93; Universities of Berlin and Jena, 1893-94; Ph.D., Cornell University, 1894; Lecturer in Philosophy, Cornell University, 1894-96 and Instructor in Philosophy, 1897-1900; Acting Professor in charge of the department of Philosophy, University of Vermont, 1896-97.

JAMES WADDELL TUPPER, PH.D., *Associate in English Literature.*

A.B., Dalhousie University, 1891; Ph.D., Johns Hopkins University, 1895; Professor of English, Western University of Ontario, 1898-1900.

LUCIEN FOULET, *Associate in French Literature.*

Licencié ès Lettres, University of Paris, 1896; Ecole normale supérieure and the Sorbonne, 1896-97; University of Cambridge, England, and University College, London, 1898; Licencié d'Anglais, University of Paris, 1898; Ecole normale supérieure and the Sorbonne, 1899.

DAVID WILBUR HORN, PH.D., *Associate in Chemistry.*

A.B., Dickinson College, 1897, and A.M., 1898; Ph.D., Johns Hopkins University, 1900; Graduate Scholar, Johns Hopkins University, 1899-1900; Fellow by Courtesy, and Assistant in Analytical Chemistry, Johns Hopkins University, 1900-01.

HOMER JAMES EDMISTON, PH.D., *Associate in Latin.*

A.B., University of Nebraska, 1892; A.M., Harvard University, 1899, and Ph.D., 1901; Instructor in Latin, Cornell University, 1892-97; Instructor in Latin, Princeton University, 1897-98; James Savage Scholar, Harvard University, 1898-1901.

CHAUNCEY B. TINKER, A.M., *Associate (elect) in English.*

A.B., Yale University, 1899 and A.M., 1901, Assistant in English, Yale College, 1899-1900; Foote Fellow in English, Yale College, 1900-02.

WILLIAM B. HUFF, PH.D., *Associate (elect) in Physics.*

A.B., University of Wisconsin, 1889; A.M., University of Chicago, 1896; Ph.D., Johns Hopkins University, 1900; Assistant in Physics, Johns Hopkins University, 1900-02.

WILLIAM SARGENT BURRAGE, PH.D., *Lecturer in Greek.*

A.B., Harvard University, 1892, A.M., 1895, and Ph.D., 1898; Instructor in Latin, Harvard University, 1897-98; Acting Assistant Professor of Latin, University of West Virginia, 1900-01.

CLARENCE D. ASHLEY, LL.M., LL.D., *Non-Resident Lecturer in Law.*

A.B., Yale University, 1873; University of Berlin, 1876-78; LL.B., Columbia University, 1880; Professor of Law, Metropolis Law School, 1891-95; Professor of Law, New York University, 1895-1902; Vice-Dean of the Faculty of Law in charge of the Evening Division of the Law Department of New York University, 1895-96; Dean of the Faculty of Law, New York University, 1896-1902.

FRANK H. SOMMER, LL.M., *Non-Resident Lecturer in Law.*

LL.B., New York University, 1895, and LL.M., 1900; Diploma, Metropolis Law School, 1893; Instructor in Law, Metropolis Law School, 1894-95; Professor of Law, New York University, 1895-1902; Counsellor-at-Law, New Jersey Bar.

ROSE CHAMBERLIN, *Reader in German.*

Great Yarmouth, England. Graduate in Honours, Newnham College, University of Cambridge, England, 1886 (Mediæval and Modern Languages Tripos, First Class).

HARRIET RANDOLPH, PH.D., *Demonstrator in Biology and Reader in Botany.*

A.B., Bryn Mawr College, 1889; Fellow in Biology, Bryn Mawr College, 1889-90; University of Zürich, 1890-92; Ph.D., University of Zürich, 1892.

HELEN WHITALL THOMAS, A.B., *Reader in English.*

A.B., Bryn Mawr College, 1893; University of Leipsic, Second Semester, 1893-94; Sorbonne and Collège de France and University of Leipsic, 1894-95; Bryn Mawr College, 1895-96.

LUCY MARTIN DONNELLY, A.B., *Reader in English.*

A.B., Bryn Mawr College, 1893; University of Oxford, England, and University of Leipsic, 1893-94; Sorbonne and Collège de France, and University of Leipsic, 1894-95.

HELEN STRONG HOYT, A.M., *Reader in English.*

A.B., Bryn Mawr College, 1897, and A.M., 1898; Bryn Mawr College, 1897-98.

EDITH PETTIT,* A.M., *Reader in English.*

A.B., Bryn Mawr College, 1895, and A.M., 1898; Sorbonne and Collège de France, 1896-97; Bryn Mawr College, 1897-98.

NELLIE NEILSON, Ph.D., *Reader in English.*

A.B., Bryn Mawr College, 1893; A.M., 1894, and Ph.D., 1899; Fellow in History, Bryn Mawr College, 1894-95.

ALVIN SAUNDERS JOHNSON, A.M., *Reader in Economics.*

A.B., University of Nebraska, 1897, and A.M., 1898; Fellow in Greek, University of Nebraska, 1897-98; Columbia University, 1898-1901; University Scholar, Columbia University, 1899-1900, and Fellow in Economics, 1900-01.

KATHARINE ELIZABETH FULLERTON, A.M., *Reader in English.*

A.B., Radcliffe College, 1900, and A.M., 1901.

PAULINE WIGHT BRIGHAM, A.B., *Reader in English.*

A.B., Radcliffe College, 1898; University of Paris, 1899-1900.

GORDON HALL GEROULD, B.Litt., *Reader in English Philology.*

A.B., Dartmouth College, 1899; Henry E. Parker Travelling Fellow of Dartmouth College, University of Oxford, Sorbonne and Collège de France, 1899-1901; B.Litt., University of Oxford, 1901.

WILLIAM ROY SMITH, A.M., *Reader (elect) in History.*

A.B., University of Texas, 1897, and A.M., 1898; Columbia University, 1898-1900; Acting Professor of History and Political Science, University of Colorado, 1900-01; Lecturer in History, Barnard College, 1901-02.

FRANCES LOWATER, B.Sc., *Demonstrator in Physics.*

Nottingham, England. B.Sc., University of London, 1900; University College, Nottingham, 1888-91, 1892-93; Newnham College, University of Cambridge, England, 1891-92; Fellow in Physics, Bryn Mawr College, 1896-97, and Graduate Scholar in Physics, 1897-98; Secretary of Bryn Mawr College, 1898-99.

GERTRUDE LANGDEN HERITAGE, A.M., *Demonstrator in Chemistry.*

A.B., Bryn Mawr College, 1896, and A.M., 1899; Graduate Student in Chemistry, Bryn Mawr College, 1896-97, 1898-1900, and Graduate Student in Mathematics and Chemistry, 1897-98.

LOUISA SMITH, M.D., *Director of the Gymnasium.*

Graduate of the Anderson Normal School of Gymnastics, 1895; Special Course in Medical Gymnastics, Anderson Normal School of Gymnastics, 1895; Assistant Teacher in the Summer School of Physical Education, Cornell University, 1895; M.D., Syracuse University, 1898; Assistant Teacher in Chautauqua School of Physical Education, 1898.

BESSIE BELLE LITTLE, B.Sc., *Assistant in the Gymnasium.*

B.Sc., Kansas State Agricultural College, 1891; Graduate of Anderson Normal School of Gymnastics, 1895; Director of the Gymnasium, Topeka School of Physical Education, 1896-99; Director of the Gymnasium, Belmont College, Nashville, Tenn., 1899-1900; Director of the department of Physical Education for Women and Children in the Ottawa Chautauqua Assembly, 1900.

MARTHA E. OSMOND, M.D., *Physician of the College.*

M.D., Woman's Medical College of Pennsylvania, 1898; Johns Hopkins Medical School, 1899; Resident Physician, Evening Dispensary for Women and Girls, Baltimore, Md., 1898-99; Clinician, the Alumnae Dispensary, Philadelphia, Pa., 1899-1901.

GEORGE S. GERHARD, M.D., *Consulting Physician of the College.*

ISABEL ELY LORD, B.L.S., *Librarian.*

B.L.S., New York State Library School, 1897.

* Granted leave of absence for the year 1901-02.

FANNY BORDEN, A.B., B.L.S., *Assistant Librarian.*

A.B., Vassar College, 1898; B.L.S., New York State Library School, 1901.

LESLIE MERRITT, *Cataloguer.*

Graduate of the Pratt Institute Library School, 1901.

ISABEL MADDISON, B.Sc., PH.D., *Secretary to the President and Reader in Mathematics.*

B.Sc., University of London, 1893, and Ph.D., Bryn Mawr College, 1896; Graduate Student in Mathematics, Bryn Mawr College, 1892-93, and Fellow in Mathematics, 1893-94; Holder of the Mary E. Garrett European Fellowship and Student in Mathematics, University of Göttingen, 1894-95.

MARY HELEN RITCHIE, A.M., *Secretary of the College.*

A.B., Bryn Mawr College, 1896, and A.M., 1897; Graduate Scholar in Greek and Latin, Bryn Mawr College, 1896-97; Graduate Student in Greek and Latin, 1897-98, and Fellow in Latin, 1898-99.

BERTHA MARGARET LAWS, A.B., *Recording Secretary.*

A.B., Bryn Mawr College, 1901.

FREDERICKA M. KERR, *Bursar.*

MARY JACKSON NORCROSS, A.B., *Assistant Bursar.*

A.B., Bryn Mawr College, 1900.

EVANGELINE HOLCOMBE ANDREWS, A.B., *Junior Bursar.*

A.B., Bryn Mawr College, 1893; Graduate Student, Bryn Mawr College, 1899-1902.

CAROLINE LEWIS, *Superintendent of Buildings and Grounds.*

Honorary Corresponding Secretaries.

MARY MCMURTRIE, A.B., *Chestnut Hill*, PHILADELPHIA.

SOPHIA WEYGANDT HARRIS, A.B. (MRS. JOHN MCARTHUR HARRIS), 105 *West Walnut Lane*, GERMANTOWN, PHILADELPHIA.

EDITH PETTIT, A.M., 1012 *Spruce Street*, PHILADELPHIA.

MARGARET THOMAS CAREY, A.B. (MRS. ANTHONY MORRIS CAREY), 832 *Eutaw Street*, BALTIMORE.

ALYS PEARSALL SMITH RUSSELL, A.B. (THE HON. MRS. BERTRAND RUSSELL), 44 *Grosvenor Road*, S. W., LONDON, ENGLAND.

MILDRED MINTURN, A.B., 109 *E. Twenty-first Street*, NEW YORK CITY.

ELIZA RAYMOND ADAMS LEWIS, A.B. (MRS. FRANK NICHOLS LEWIS), 236 *E. New York Street*, INDIANAPOLIS, INDIANA.

The Academic Committee of the Alumnae.

JANE LOUISE BROWNELL, A.M., *Chairman, The Bryn Mawr School*, BALTIMORE.

SUSAN GRIMES WALKER FITZGERALD, A.B. (MRS. RICHARD Y. FITZGERALD), *Secretary*, 38 *King Street*, NEW YORK.

ELIZABETH BUTLER KIRKBRIDE, A.B. (*ex officio*), 1406 *Spruce Street*, PHILADELPHIA.

MARY TAYLOR MASON, A.B., *School House Lane*, GERMANTOWN, PHILADELPHIA.

ALICE BACHE GOULD, A.B., 405 *Marlborough Street*, BOSTON, MASSACHUSETTS.

ANNA RHOADS LADD, A.M. (MRS. WILLIAM COFFIN LADD), BRYN MAWR, PENNSYLVANIA.

MARY BIDWELL BREED, PH.D., *University of Indiana*, BLOOMINGTON, INDIANA.

EDITH F. SAMPSON WESTCOTT, A.M. (MRS. JOHN HOWELL WESTCOTT), PRINCETON, N.J.

STUDENTS.

Fellows and Graduate Students, Academic Year, 1901-02.

ELLEN DEBORAH ELLIS, . *Holder of the Bryn Mawr European Fellowship.*
Philadelphia, Pa. A.B., Bryn Mawr College, 1901. Graduate Student in Political Science,
Bryn Mawr College, 1901-02.

KATE NILES MORSE, . *Holder of the Mary E. Garrett European Fellowship.*
Haverhill, Mass. A.B., Mt. Holyoke College, 1898, and A.M., 1900. Graduate Student in
Greek, English, German, and Archaeology, Bryn Mawr College, 1898-99; Graduate Student,
Mt. Holyoke College, 1899-1900; Fellow in Greek, Bryn Mawr College, 1900-01; University
of Berlin, 1901-02.

NETTIE M. STEVENS, . . . *Holder of the President's European Fellowship.*
San José, Cal. A.B., Leland Stanford, Jr., University, 1899, and A.M., 1900. Student in
Hopkins Seaside Laboratory, San Francisco, Summer, 1897, 1898, and 1899; Graduate
Scholar in Biology, Bryn Mawr College, 1900-01; Zoological Station, Naples, 1901-02.

KATE WATKINS TIBBALS, *Fellow in English.*
Marlboro, N. Y. A.B., Wellesley College, 1899. Graduate Scholar in English, Bryn Mawr
College, 1900-01.

MARGERETHE URDAHL, *Fellow in Teutonic Philology.*
Madison, Wis. L.B., University of Wisconsin, 1896. Student, University of Berlin, 1898
and 1899; University of Heidelberg, Summer term, 1899; University of Christiania,
October, 1899; Fellow in Teutonic Philology, Bryn Mawr College, 1900-01.

LOIS ANNA FARNHAM, *Fellow in History.*
Richmond, Ind. A.B., Bryn Mawr College, 1900, and A.M., 1901. Graduate Scholar in
Political Science, Bryn Mawr College, 1900-01.

HARRIET BROOKS, *Fellow in Physics.*
Montreal, Canada. A.B., McGill University, 1898. Graduate Student, McGill University,
1898-99; Tutor in Mathematics and Research Student in Physics, Royal Victoria College,
1899-1901.

MARIE REIMER, *Fellow in Chemistry.*
East Aurora, N. Y. A.B., Vassar College, 1897. Graduate Scholar in Chemistry, Vassar Col-
lege, 1897-98; Assistant in the Chemical Laboratory, Vassar College, 1898-99; Fellow in
Chemistry, Bryn Mawr College, 1899-1900; Graduate Scholar and Fellow by Courtesy in
Chemistry, Bryn Mawr College, 1900-01.

CAROLINE BROWN BOURLAND,
Graduate Scholar and Fellow by Courtesy in Romance Languages.

Peoria, Ill. A.B., Smith College, 1893. Teacher of French and German in Mrs. Starratt's
School, Oak Park, Ill., 1895-96, and in the High School, Peoria, 1896-97; Student, Sorbonne
and Collège de France, 1897-98; Fellow in Romance Languages, Bryn Mawr College,
1898-99; Graduate Scholar and Fellow by Courtesy in Romance Languages, Bryn Mawr
College, 1899-1900; Holder of the Mary E. Garrett European Fellowship and Student in
Romance Languages, Madrid, Spain, 1900-01.

EDITH FAHNESTOCK,
Graduate Scholar and Fellow by Courtesy in Romance Languages.

Harrisburg, Pa. L.B., Western Reserve University, 1894. University of Zürich and
Sorbonne, 1894-96; Fellow in Romance Languages, Bryn Mawr College, 1897-98; Mistress
of Modern Languages, Mississippi Industrial Institute and College, Columbus, Miss.,
1898-1901.

FLORENCE LEFTWICH,
Graduate Scholar and Fellow by Courtesy in Romance Languages.

Baltimore, Md. Wellesley College, 1884-85; A.B., Bryn Mawr College, 1895. Holder of the
Bryn Mawr European Fellowship, and Student in Romance Languages, Sorbonne and
Collège de France, 1895-96; Mistress of Modern Languages, Mississippi Industrial In-
stitute and College, 1896-98; Fellow by Courtesy in Romance Languages, Bryn Mawr College,
1898-99; Holder of the European Fellowship of the Baltimore Association for the Promo-
tion of the University Education of Women, and Student, University of Zürich, 1899-1900;
Teacher of French in the Bryn Mawr School, Baltimore, 1900-01.

VIRGINIA RAGSDALE, *Fellow by Courtesy in Mathematics.*

Jamestown, N. C. S.B., Guilford College, 1892; A.B., Bryn Mawr College, 1896. Graduate Scholar in Mathematics, Bryn Mawr College, 1892-93, and Graduate Student in Mathematics, 1893-97; Holder of the Bryn Mawr European Fellowship and Assistant Demonstrator in Physics, Bryn Mawr College, 1896-97; Student in Mathematics, University of Göttingen, 1897-98; Teacher of Science and Mathematics in the Bryn Mawr School, Baltimore, Md., 1898-1900, and Assistant Teacher of Mathematics, 1900-01; Holder of the Fellowship of the Baltimore Association for the Promotion of the University Education of Women, 1901-02.

GRACE ALBERT, *Latin and History.*

Philadelphia, Pa. A.B., Bryn Mawr College, 1897. Private Tutor, 1897-99; Teacher of Latin in the Misses Shipley's School, Bryn Mawr, Pa., 1899-1901, and Secretary, 1901-02.

EVANGELINE HOLCOMBE WALKER ANDREWS,* *Philosophy.*

Washington, D. C. A.B., Bryn Mawr College, 1893. Teacher of English in Miss Florence Baldwin's School, Bryn Mawr, Pa., 1893-95; Junior Bursar, Bryn Mawr College, 1901-02.

ALICE ANTHONY, *English and Political Science.*

Detroit, Mich. A.B., Bryn Mawr College, 1889. Assistant, Church Settlement, St. Peter's House, Philadelphia, Pa., 1894-97; Resident, Calvary House Settlement, New York City, 1897-1901; Warden of Denbigh Hall, Bryn Mawr College, 1901-02.

FANNY BORDEN, *Italian and History.*

Fall River, Mass. A.B., Vassar College, 1898; B.L.S., New York State Library School, 1901. Assistant Librarian, Bryn Mawr College, 1901-02.

PAULINE WIGHT BRIGHAM, *English and French.*

Boston, Mass. A.B., Radcliffe College, 1898. University of Paris, 1899-1900; Reader in English, Bryn Mawr College, 1901-02.

EMMA CADBURY, JR., *Biblical Literature.*

Philadelphia, Pa. A.B., Bryn Mawr College, 1898. Teacher in All Saints' School, Germantown, Philadelphia, 1899; Private Tutor, 1899-1900.

EDITH A. CHANDLEE, *English and German.*

Richmond, Ind. A.B., Earlham College, 1901. Holder of Earlham Graduate Scholarship, Bryn Mawr College, 1901-02.

HELEN PRENTISS CONVERSE, *Mathematics.*

Rosemont, Pa. A.B., Bryn Mawr College, 1901.

ABIGAIL CAMP DIMON, *Political Science and Biology.*

Utica, N.Y. A.B., Bryn Mawr College, 1896, and A.M., 1899. Vice-Principal of the High School, Clinton, N. Y., 1896-97; Assistant Teacher of English in the Utica Academy, 1897-98; Graduate Student in Mathematics, Physics, and Biology, Bryn Mawr College, 1898-99; Warden of Radnor Hall, Bryn Mawr College, 1901-02.

MINNIE DOROTHY EBY, *Mathematics and Chemistry.*

Berlin, Ont. A.B. and A.M., McMaster University, 1897.

EDITH EDWARDS, *Italian, Spanish, and Law.*

Woonsocket, R. I. A.B., Bryn Mawr College, 1901.

ADA MARTITIA FIELD, *English, Biblical Literature, Physics, and Chemistry.*

Climax, N. C. A.B., Guilford College, 1898. Holder of Guilford Graduate Scholarship, Bryn Mawr College, 1898-99; Graduate Student, Guilford College, and Assistant Librarian, 1899-1900.

EUGENIA FOWLER, *Philosophy and Physics.*

Catonsville, Md. A.B., Bryn Mawr College, 1901. Mistress of Llanberis, Bryn Mawr College, 1901-02.

* Mrs. Charles McLean Andrews, 1895.

- KATHARINE ELIZABETH FULLERTON, *English and French.*
Brockton, Mass. A.B., Radcliffe College, 1900, and A.M., 1901. Reader in English, Bryn Mawr College, 1901-02.
- CELIA DAPHNE GREENWOOD, *French and History.*
Princeton, Ill. Ph.B., Northwestern University, 1901.
- EDITH HAYWARD HALL, *Graduate Scholar in Greek, Latin, and Archæology.*
Woodstock, Conn. A.B., Smith College, 1899. Teacher of Greek and History in Woodstock Academy, Woodstock, Conn., 1899-1900; Teacher of Latin and Greek in the Misses Shipley's School, Bryn Mawr, Pa., and Graduate Student, Bryn Mawr College, 1900-01.
- HELEN HENRY HODGE, *History.*
Wilkes Barre, Pa. A.B., Bryn Mawr College, 1900. Teacher of History in Miss Irwin's School, Philadelphia, 1901-02.
- MARY LENORE JOBE, *English and History.*
Uhrichsville, O. Ph.B., Scio College, 1897.
- GRACE LATIMER JONES, *Graduate Scholar in Philosophy.*
Columbus, O. A.B., Bryn Mawr College, 1900. Teacher of Greek, German, and Science, Rosemary Hall, Greenwich, Conn., 1900-01.
- HELEN DEAN KING, *Biology.*
Owego, N. Y. A.B., Vassar College, 1892. Ph.D., Bryn Mawr College, 1901. Graduate Student in Biology, Vassar College, and Assistant in the Biological Laboratory, 1894-95; Graduate Scholar in Biology, Bryn Mawr College, 1895-96; and Graduate Student in Biology, 1896-97; Fellow in Biology, Bryn Mawr College, 1897-98; and Fellow by Courtesy in Biology, 1898-1901.
- EFFIE GERTRUDE LLEWELLYN, *French, Italian, and Spanish.*
Shamekin, Pa. A.B., Elmira College, 1888. Harvard University, Summer Course, 1896.
- CARRIE ALICE MANN, *Mathematics.*
South Weymouth, Mass. A.B., Wellesley College, 1893. Teacher of Mathematics in the Misses Kirk's School, Rosemont, Pa., 1901-02.
- EMILIE NORTON MARTIN, *Mathematics.*
Ardmore, Pa. A.B., Bryn Mawr College, 1894, and Ph.D., 1901. Graduate Student in Mathematics and Physics, Bryn Mawr College, First Semester, 1894-95 and 1896-97; Teacher of Latin in the Bryn Mawr School, Baltimore, Md., January-June, 1895; Fellow in Mathematics, Bryn Mawr College, 1895-96; Holder of the Mary E. Garrett European Fellowship, and Student in Mathematics, University of Göttingen, 1897-98; Fellow by Courtesy in Mathematics, Bryn Mawr College, 1898-99; Teacher of Mathematics in the Misses Kirk's School, Rosemont, Pa., 1899-1900, and Private Tutor, 1899-1902.
- MARGARETTA MORRIS, *Political Science.*
Philadelphia, Pa. A.B., Bryn Mawr College, 1900.
- EMILIE COMSTOCK PECKHAM, *French.*
Utica, N. Y. A.B., Evelyn College, 1895.
- ADELE JACKSON PICKEL, *English, German, and French.*
Medford, Ore. A.B., University of Oregon, 1901.
- DIANA POMEROY, *English, German, Biblical Literature, and Education.*
New Castle, Pa. A.B., Westminster College, 1898.
- LIDA POMEROY, *English, German, Biblical Literature, and Education.*
New Castle, Pa. A.B., Westminster College, 1898.
- MARY LOUISE PRENTISS, *Archæology.*
Lincoln, Neb. A.B., University of Nebraska, 1899. Student, New York State Library School, 1899-1900; Graduate Student in English, Bryn Mawr College, 1900-01.

LINNIE RAIFORD, *Latin, English, and Archæology.*
Conley, Va. A.B., Guilford College, 1901. Holder of Guilford Graduate Scholarship, Bryn Mawr College, 1901-02.

MARGARET A. REED, *Biology.*
Meyersdale, Pa. A.B., Woman's College of Baltimore, 1901. Wood's Holl Laboratory, Summer of 1900.

MARION REILLY, *Mathematics.*
Philadelphia, Pa. A.B., Bryn Mawr College, 1901.

MARGARET MOORE ROUDEBUSH, *Latin, History, and Mathematics.*
Madison, Miss. A.B., Mississippi Industrial Institute and College, 1897. University of Mississippi, Summer Course, 1897, 1899.

LUCY CONSTANCE RULISON, *English and History.*
South Bethlehem, Pa. A.B., Bryn Mawr College, 1900. Warden of Pembroke Hall, West, Bryn Mawr College, 1901-02.

MARY SOUTHGATE, *Latin and English.*
Plymouth, Mass. A.B., Bryn Mawr College, 1901. Warden of Merion Hall, Bryn Mawr College, 1902.

HELEN TOSTENSON, *English and Archæology.*
Dillon, Ia. S.B., Penn College, 1901. Holder of Penn Graduate Scholarship, Bryn Mawr College, 1901-02.

HOPE TRAVER, *English and History.*
West Hartford, Conn. A.B., Vassar College, 1896. Private Tutor, Whitford, Pa., 1901-02.

GERTRUDE H. TRESSSEL, . . . *English, French, Philosophy, and Archæology.*
Alliance, O. Mus.B., Mt. Union College, 1895, and A.B., 1898.

ETHEL WENDELL TROUT, *Latin.*
Wayne, Pa. A.B., Bryn Mawr College, 1901.

HARRIET ELLA WIGG, *Graduate Scholar in Mathematics.*
Oshawa, Ont. A.B., University of Toronto, 1901.

FORMER FELLOWS.

The Bryn Mawr European Fellowship was established by the Trustees in 1885, and has been held by the following graduates of Bryn Mawr College :

EMILY GREENE BALCH, 1889-90.
Boston, Mass. A.B., Bryn Mawr College, 1889. Student in Political Science, Conservatoire des Arts et des Métiers, Paris, and under the direction of Prof. Emile Levasseur, 1890-91; University of Chicago, 1895; University of Berlin, 1895-96; Member of Board of Trustees for Children of the City of Boston, 1897-98; Assistant in Economics, Wellesley College, 1896-97, and Instructor in Economics, 1897-1902.

KATHARINE MORRIS SHIPLEY, 1890-91.
Cincinnati, O. A.B., Bryn Mawr College, 1890. Student in Latin and English, University of Leipsic, 1890-91; Sorbonne and Collège de France, 1891-92; Newnham College, University of Cambridge, England, May term, 1892; Associate Principal and Teacher of English in the Misses Shipley's School, Bryn Mawr, Pa., 1894-1902.

- LILIAN VAUGHAN SAMPSON, 1891-92.
Philadelphia, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1894. Student in Biology, University of Zürich, 1892-93; Graduate Student in Biology, Bryn Mawr College, 1891-92, and 1893-99.
- ANNIE CROSBY EMERY, 1892-93.
Ellsworth, Me. A.B., Bryn Mawr College, 1892; and Ph.D., 1896. Graduate Student in Greek and Latin, Bryn Mawr College, 1892-93; Student in Greek and Latin, University of Leipsic, 1893-94; Secretary to the President and Graduate Student in Greek and Latin, Bryn Mawr College, Second Semester, 1894-95, and 1895-96; Dean of Women and Assistant Professor of Classical Philology, University of Wisconsin, 1897-1900; Dean of the Women's College of Brown University, 1900-02.
- LOUISE SHEFFIELD BROWNELL SAUNDERS,* 1893-94.
New York City. A.B., Bryn Mawr College, 1893. Student in Greek and English, University of Oxford, England, and University of Leipsic, 1893-94; Graduate Student in Greek, Columbia College, 1894-95, and Graduate Student in English, 1895-96; Graduate Student in Greek and English, Bryn Mawr College, 1896-97; Warden of Sage College and Lecturer in English Literature, Cornell University, 1897-1900; Head of the Balliol School, Utica, N. Y., 1900-02.
- MARY BIDWELL BREED, 1894-95.
Pittsburg, Pa. Graduate, Pennsylvania College for Women, 1889; A.B., Bryn Mawr College, 1894, A.M., 1895, and Ph.D., 1901. Graduate Student in Chemistry, and Assistant in Chemical Laboratory, Bryn Mawr College, 1894-95; Student in Chemistry, University of Heidelberg, 1895-96; Professor of Science, Pennsylvania College for Women, 1897-99; Graduate Scholar and Fellow by Courtesy in Mathematics, Physics, and Chemistry, Bryn Mawr College, 1899-1901; Dean of Women and Assistant Professor of Chemistry, Indiana University, 1901-02.
- FLORENCE LEFTWICH, 1895-96.
Baltimore, Md. Wellesley College, 1884-85; A.B., Bryn Mawr College, 1895. Student in Romance Languages, Sorbonne and Collège de France, 1895-96; Mistress of Modern Languages, Mississippi Industrial Institute and College, Columbus, Miss., 1896-98; Fellow by Courtesy in Romance Languages, Bryn Mawr College, 1898-99; Holder of the European Fellowship of the Baltimore Association for the Promotion of the University Education of Women, and Student, University of Zürich, 1899-1900; Teacher of French in the Bryn Mawr School, Baltimore, 1900-01; Graduate Student, Bryn Mawr College, 1902.
- VIRGINIA RAGSDALE, 1896-97.
Jamestown, N. C. S.B., Guilford College, 1892; A.B., Bryn Mawr College, 1896. Graduate Student in Mathematics, Bryn Mawr College, 1892-97; Student in Mathematics, University of Göttingen, 1897-98; Teacher of Science and Mathematics in the Bryn Mawr School, Baltimore, Md., 1898-1900; and Assistant Teacher of Mathematics, 1900-01; Holder of the Fellowship of the Baltimore Association for the Promotion of the University Education of Women, and Graduate Student in Mathematics, Bryn Mawr College, 1901-02.
- MARGARET HAMILTON, 1897-98.
Fort Wayne, Ind. A.B., Bryn Mawr College, 1897. Student in Biology, Sorbonne and Collège de France, 1898-99; Teacher of Science, Bryn Mawr School, Baltimore, Md., 1900-02.
- MARION EDWARDS PARK, 1898-99.
Gloversville, N. Y. A.B., Bryn Mawr College, 1898, and A.M., 1899. Graduate Student in Greek and English, Bryn Mawr College, 1898-99; Graduate Student in Greek and Archæology, Autumn Quarter, University of Chicago, 1900-01; University of Halle, Germany, and the American School of Classical Studies, Athens, 1901-02.
- CORA HARDY, 1899-1900.
Birmingham, Ala. A.B., Bryn Mawr College, 1899. Holder of the James E. Rhoads Junior Scholarship, Bryn Mawr College, 1897-98, and Holder of Anna Powers Memorial Scholarship, 1898-99; Student at the Sorbonne and Collège de France, 1899-1900.
- ELIZABETH MARY PERKINS, 1900-01.
Washington, D. C. A.B., Bryn Mawr College, 1900. Graduate Student in Greek and Latin, Bryn Mawr College, 1900-01; University of Berlin, 1901-02.

*Mrs. Arthur Percy Saunders, 1900.

The Mary E. Garrett European Fellowship was established in 1894 by Miss Mary E. Garrett, of Baltimore, and has been held by the following students :

ISABEL MADDISON, 1894-95.

Reading, England. University College of South Wales and Monmouthshire, 1885-89; Girtton College, University of Cambridge, England, 1889-92; Mathematical Tripos, 1892; Oxford Mathematical Final Honour School, 1892; B.Sc., University of London, Mathematical Honours, 1893; Ph.D., Bryn Mawr College, 1896. Graduate Student in Mathematics, Bryn Mawr College, 1892-93; Fellow in Mathematics, Bryn Mawr College, 1893-94; Student in Mathematics, University of Göttingen, 1894-95; Assistant Secretary to the President, Bryn Mawr College, 1895-96; Secretary to the President and Reader in Mathematics, Bryn Mawr College, 1896-1902.

EDITH HAMILTON, 1895-96.

Fort Wayne, Ind. A.B. and A.M., Bryn Mawr College, 1894. Fellow in Latin, Bryn Mawr College, 1894-95; Student in Greek and Latin, Universities of Leipsic and Munich, 1895-96; Head Mistress of the Bryn Mawr School, Baltimore, Md., 1896-1902.

WINIFRED WARREN, 1896-97.

Cambridge, Mass. A.B., Boston University, 1891, and A.M., 1894; Ph.D., Bryn Mawr College, 1898. Fellow in Latin, Bryn Mawr College, 1893-94, and Fellow by Courtesy, 1894-96; Student in Classical Philology, Universities of Munich and Berlin, 1896-97; Instructor in Latin, Vassar College, 1897-1902.

EMILIE NORTON MARTIN, 1897-98.

Ardmore, Pa. A.B., Bryn Mawr College, 1894, and Ph.D., 1901. Graduate Student in Mathematics and Physics, Bryn Mawr College, First Semester, 1894-95, and 1896-97; Teacher of Latin in the Bryn Mawr School, Baltimore, Md., January-June, 1895; Fellow in Mathematics, Bryn Mawr College, 1895-96; Student in Mathematics, University of Göttingen, 1897-98; Fellow by Courtesy in Mathematics, Bryn Mawr College, 1898-99; Teacher of Mathematics in the Misses Kirk's School, Rosemont, Pa., 1899-1900, and Private Tutor, 1899-1902; Graduate Student, Bryn Mawr College, 1901-02.

FLORENCE PEEBLES, 1898-99.

Lutherville, Md. A.B., Woman's College of Baltimore, 1895. Graduate Scholar in Biology, Bryn Mawr College, 1895-96; Fellow in Biology, 1896-97, and Graduate Student in Biology, 1897-98; Scholar of the Women's Table and Student in Biology, Zoological Station, Naples, University of Munich, and University of Halle, 1898-99; Instructor in Biology, Woman's College of Baltimore, 1899-1902.

EDITH FRANCES CLAFLIN, 1899-1900.

Quincy, Mass. A.B., Radcliffe College, 1897. Graduate Scholar in Greek and Latin, Bryn Mawr College, 1897-98, and Graduate Student in Greek and Latin, 1898-99; Student at the American School of Classical Studies, Athens, 1899-1900; Private research work, Harvard University Library, 1900-01, Instructor in Literature in the Prospect Hill School, Greenfield, Mass., 1901-02.

CAROLINE BROWN BOURLAND, 1900-01.

Peoria, Ill. A.B., Smith College, 1893. Teacher of French and German in Mrs. Starratt's School, Oak Park, Ill., 1895-96, and in the High School, Peoria, 1896-97; Student, Sorbonne and Collège de France, 1897-98; Fellow in Romance Languages, Bryn Mawr College, 1898-99; Graduate Scholar and Fellow by Courtesy in Romance Languages, Bryn Mawr College, 1899-1900; Student in Romance Languages, Madrid, Spain, 1900-01; Fellow by Courtesy and Scholar in Romance Languages, Bryn Mawr College, 1901-02.

The President M. Carey Thomas Fellowship was established in 1896 by Miss Mary E. Garrett, of Baltimore, and has been held by the following students:

CLARA LANGENBECK, 1896-97.

Cincinnati, O. Ph.G., Cincinnati College of Pharmacy, 1890; S.B., University of Cincinnati, 1895. Fellow in Biology, Bryn Mawr College, 1895-96; Student in Biology, University of Marburg, 1896-98; Professor of Biology, Wells College, 1898-1901; Instructor in the Cincinnati Collegiate School for Girls, and Student, University of Cincinnati, 1901-02.

ELLEN ROSE GILES, 1897-98.
Philadelphia, Pa. Wellesley College, 1892-93; A.B. and A.M., Bryn Mawr College, 1896.
Graduate Scholar in Semitic Languages, Bryn Mawr College, 1896-97, and Graduate Scholar
in Philosophy, 1897-98; Student in Philosophy, University of Berlin, 1898-99; Sorbonne
and Collège de France, 1899; Private Tutor, 1899-1900.

LIZZIE REBECCA LAIRD, 1898-99.
Owen Sound, Ont. A.B., University of Toronto, 1896; Ph.D., 1901. Teacher in Ontario
Ladies' College, 1896-97; Fellow in Physics, Bryn Mawr College, 1897-98; Student in
Physics, University of Berlin, 1898-99; Graduate Scholar and Fellow by Courtesy in
Mathematics and Physics, Bryn Mawr College, 1900-01; Instructor in Physics, Mt.
Holyoke College, 1901-02.

FLORENCE PARTHENIA LEWIS, 1899-1900.
Fort Scott, Kan. A.B., University of Texas, 1897, and A.M., 1898. Fellow in Philosophy,
Bryn Mawr College, 1898-99; Student in Philosophy at the Sorbonne and Collège de France,
1899-1900; Teacher in the University Preparatory School, Austin, Tex., 1900-02; Student
of Mathematics, University of Texas, 1901-02.

SARA HENRY STITES, 1900-01.
Wyoming, Pa. A.B., Bryn Mawr College, 1899, and A.M., 1900. Graduate Scholar in His-
tory and Political Science, Bryn Mawr College, 1899-1900; Sorbonne and Collège de France,
1900-01; University of Leipsic, 1901-02.

A fellowship in Greek was established by the Trustees in 1885,
and has been held by the following students:

KITTY AUGUSTA GAGE, 1885-86.
Wilton, N. H. A.B., Boston University, 1878; A.M., Cornell University, 1885. Teacher of
Classics in the State Normal School, New Paltz, N. Y., 1893-1902.

SARAH E. SATTERTHWAITE LESLIE,* 1886-87.
Marine City, Mich. A.B., University of Michigan, 1886. Assistant in Greek and Latin,
Hope College, Holland, Mich., 1887-88; Private Tutor in Greek and Latin, 1898-1900.

HELEN LOUISA LOVELL MILLION,† 1887-88.
Flint, Mich. A.B., University of Michigan, 1887. Graduate Student, University of Michi-
gan, 1888-89; Teacher of Latin and History in the Girls' Classical School, Indianapolis, Ind.,
1889-90; Associate in Greek and Latin, Woman's College of Baltimore, 1890-91, and
Associate Professor, 1891-93; Acting Professor of Greek and Latin, Earlham College,
1893-94; Graduate Student, University of Chicago, 1894-95, and Fellow in Greek, University
of Chicago, 1895-96; Professor of Greek, Hardin College, Mexico, Mo., 1896-1900, and Pro-
fessor of Greek and Philosophy, 1900-02.

KATHARINE MAY EDWARDS, 1888-89.
Ithaca, N. Y. A.B., Cornell University, 1888, and Ph.D., 1895. Instructor in Greek, Welles-
ley College, 1889-93; Graduate Student, Cornell University, 1893-94; Associate Professor
of Greek, Wellesley College, 1894-1901; and Associate Professor of Greek and Comparative
Philology, 1901-02.

SUSAN BRALEY FRANKLIN, 1889-90.
Newport, R. I. A.B., Bryn Mawr College, 1889, and Ph.D., 1895. Fellow by Courtesy in
Greek, Bryn Mawr College, 1890-93; Holder of the American Fellowship of the Association
of Collegiate Alumnae, 1892-93; Instructor in Latin, Vassar College, 1893-97; American
School of Classical Studies, Athens, and University of Berlin, 1898-99; Teacher of Greek
and Latin in Miss Florence Baldwin's School, Bryn Mawr, Pa., 1897-98, and 1899-1902.

ELIZABETH HARRIS KEISER,‡ 1890-91.
Philadelphia, Pa. A.B., Bryn Mawr College, 1890, and A.M., 1891. Teacher of Greek and
Latin in the Collegiate Grammar School, New York City, 1891-92; Teacher of Greek and
Latin in Miss Florence Baldwin's School, Bryn Mawr, Pa., 1892-96.

* Mrs. Francis Alexander Leslie, 1890.

† Mrs. John Wilson Million, 1896.

‡ Mrs. Edward H. Keiser, 1896.

- FLORENCE V. KEYS, 1891-92.
Toronto, Ont. A.B., University of Toronto, 1891. Fellow in English, Bryn Mawr College, 1892-93; Examiner in English, University of Toronto, 1894-95; Reader in English, Bryn Mawr College, 1893-97, and Graduate Student in English, 1895-96; University of Oxford, England, 1897-98, University of Berlin, 1898-99; Instructor in English, Vassar College, 1899-1902.
- WILMER CAVE FRANCE, 1892-93.
Tysley, Worcestershire, England. Mason College, Birmingham, England, 1885-87; Girton College, University of Cambridge, England, 1888-92; Classical Tripos, 1892; Ph.D., University of Chicago, 1895. Fellow in Latin, University of Chicago, 1893-94; Fellow in Greek, University of Chicago, 1894-95; Reader in Greek and Latin, University of Chicago, 1895-96; Reader in Classical Literature, Bryn Mawr College, 1897-99; Associate in Classical Literature, 1899-1901, and Associate in Greek Literature, 1901-02.
- ELIZABETH MARY FAIRCLOUGH, 1893-94.
Hamilton, Ont. A.B., McGill University, 1893. Private tutor, 1898-1900.
- ANNIE GOODE PASCHALL,* 1894-95.
Atlanta, Ga. A.B., Vanderbilt University, 1894.
- ELEANOR PURDIE, 1895-96.
London, England. Newnham College, University of Cambridge, England, 1890-94; Classical Tripos, Part I, First Class, 1893; Part II, 1894; Ph.D., University of Freiburg, 1897. Holder of the Marion Kennedy Studentship, and Student in Indo-European Philology, University of Freiburg, 1894-95; Classical Mistress in the Notting Hill High School, London, 1897-98; Head Classical Tutor, Cheltenham Ladies' College, Cheltenham, England, 1898-1902.
- CAROLINE GARNAR BROMBACHER, 1896-97.
Brooklyn, New York City. A.B., Barnard College, 1895. Assistant Teacher of Mathematics and Latin in the Erasmus Hall High School, Brooklyn, New York City, 1897-99, and Teacher of Mathematics and Greek, 1899-1902.
- MINNIE BEATRICE REYNOLDS, 1897-98.
Upper Lake, Cal. A.B., University of California, 1895, and A.M., 1897. Instructor in Greek and Latin in the High School, Centerville, Cal., 1896-97; Fellow by Courtesy in Greek, Bryn Mawr College, 1898-99; Teacher of Latin in the Misses Shipley's School, Bryn Mawr, Pa., 1898-99; Instructor in Latin, Vassar College, 1899-1900; Instructor in Greek in the High School, Los Angeles, Cal., 1900-01; Teacher of Greek and Latin, Girls' High School, San Francisco, Cal., 1901-02.
- CHARLOTTE WILLIAMS HAZLEWOOD, 1898-99.
Ellsworth, Me. A.B., Wellesley College, 1891. Teacher of Greek and Latin in the Classical High School, Lynn, Mass., 1891-96; Graduate Student, Yale University, 1896-97, and Graduate Scholar, 1897-98.
- LIDA SHAW KING, 1899-1900.
Providence, R. I. A.B., Vassar College, 1890; A.M., Brown University, 1894. Fellow in Greek, Vassar College, 1894-95; Graduate Student in Greek and Greek History, Harvard University, 1897-98; Student at the American School of Classical Studies, Athens, 1899-1901; Holder of the Agnes Hoppin Memorial Fellowship, 1900-01; Head of the Classical Department, Packer Collegiate Institute, Brooklyn, New York City, 1901-02.
- KATE NILES MORSE, 1900-01.
Haverhill, Mass. A.B., Mt. Holyoke College, 1898, and A.M., 1900. Graduate Student in Greek, English, German, and Archaeology, Bryn Mawr College, 1898-99; Graduate Student, Mt. Holyoke College, 1899-1900; Holder of the Mary E. Garrett European Fellowship and Student, University of Berlin, 1901-02.

A fellowship in Latin was established by the Trustees in 1892, and has been held by the following students :

- ESTHER BOISE VAN DEMAN, 1892-93.
Ann Arbor, Mich. A.B., University of Michigan, 1891, and A.M., 1892; Ph.D., University of Chicago, 1898. Instructor in Latin, Wellesley College, 1893-95; Teacher of Latin in the Bryn Mawr School, Baltimore, Md., 1895-96; Fellow in Latin, University of Chicago, 1896-98; Acting Professor of Latin, Mt. Holyoke College, 1898-99, and Associate Professor of Latin, 1899-1901; American School of Classical Studies, Rome, 1901-02.

* Deceased, 1895.

WINIFRED WARREN, 1893-94.
Cambridge, Mass. A.B., Boston University, 1891, and A.M., 1894; Ph.D., Bryn Mawr College, 1898. Fellow by Courtesy in Latin, Bryn Mawr College, 1894-96; Holder of the Mary E. Garrett European Fellowship, and Student in Classical Philology, Universities of Munich and Berlin, 1896-97; Instructor in Latin, Vassar College, 1897-1902.

EDITH HAMILTON, 1894-95.
Fort Wayne, Ind. A.B. and A.M., Bryn Mawr College, 1894; Holder of the Mary E. Garrett European Fellowship, and Student in Greek and Latin, Universities of Leipsic and Munich, 1895-96; Head Mistress of the Bryn Mawr School, Baltimore, Md., 1896-1902.

JENNETTE ATWATER STREET JEFFREY,* 1895-96.
Toronto, Ont. A.B., University of Toronto, 1895. Teacher of Classics, St. Margaret's College, Toronto, 1897-1901.

MABEL WHITMAN BAKER, 1896-97.
Washington, D.C. Columbian University, 1893-95; Teacher in Norwood Institute, Washington, 1895-96; Teacher of Latin in the Western High School, Washington, 1897-1902.

MARIETTA JOSEPHINE EDMAND, 1897-98.
Blue Mounds, Wis. A.B., Central University of Iowa, 1887, and A.M., 1890; A.B., and A.M., University of Chicago, 1897. Assistant in Academic Department, Iowa Wesleyan University, 1887-90; and Principal of Academic Department, 1890-93; Professor of Latin, Iowa Wesleyan University, 1893-95; Graduate Student in Greek and Latin, University of Chicago, 1895-97; Professor of Latin and Greek, Milwaukee-Downer College, Milwaukee, Wis., 1898-99, and Professor of Latin, 1899-1901; American School of Classical Studies, Rome, 1901-02.

MARY HELEN RITCHIE, 1898-99.
Falls of Schuylkill, Pa. A.B., Bryn Mawr College, 1896, and A.M., 1897. Graduate Scholar in Greek and Latin, Bryn Mawr College, 1896-97, and Graduate Student in Greek and Latin, 1897-98; Secretary of Bryn Mawr College, 1899-1902.

HATTIE JOSEPHINE GRIFFIN, 1899-1900.
Madison, Wis. A.B., University of Wisconsin, 1898. Alumni Fellow in Latin, University of Wisconsin, 1898-99; Fellow in Latin, University of Wisconsin, 1901-02.

IDA PRESCOTT CLOUGH, 1900-01.
Somerville, Mass. A.B., Radcliffe College, 1896, and A.M., 1900. Graduate Student, Radcliffe College, 1899-1900; University of Berlin, 1901-02.

A fellowship in English was established by the Trustees in 1885, and has been held by the following students:

MARY GWINN, 1885-87.
Baltimore, Md. University of Leipsic, 1879-82; University of Zürich, 1882; Sorbonne and Collège de France, 1883; Ph.D., Bryn Mawr College, 1888. Graduate Student in English, Bryn Mawr College, 1887-88; Associate in English, Bryn Mawr College, 1888-93; Associate Professor of English, Bryn Mawr College, 1893-97, and Professor of English, 1897-1902.

GERTRUDE H. MASON, 1887-88.
San José, Cal. Ph.B., University of Michigan, 1876, and Ph.M., 1888. Graduate Scholar in English, University of Michigan, 1888-89; Teacher of English in the High School, Petaluma, Cal., 1889-95; Teacher in the High School, San Diego, Cal., 1895-96; Teacher in the Kern County High School, Bakersfield, Cal., 1897-98; Teacher of English in the Union High School, Haywards, Cal., 1899-1900.

IDA WOOD, 1888-89.
Philadelphia, Pa. A.B., Vassar College, 1877, and A.M., 1889; Ph.D., Bryn Mawr College, 1891. Graduate Student in English, Bryn Mawr College, 1887-88 and 1889-91, and Fellow by Courtesy, 1890-91; Secretary of the Woman's Department of the University of Pennsylvania, 1892-93; Secretary of the Bryn Mawr School, Baltimore, Md., 1894-96.

* Mrs. Edward C. Jeffrey, 1901.

- MABEL PARKER CLARK HUDDLESTON,* 1889-90.
New York City. A.B., Bryn Mawr College, 1889, and A.M., 1890. Reader in English, Bryn Mawr College, and Graduate Student in English and French, 1890-93; Graduate Student in English and French, Columbia College, 1893-94.
- KATHARINE MERRILL, 1890-91.
Abilene, Kan. A.B., University of Kansas, 1889. Graduate Student in English, Bryn Mawr College, 1889-90; Harvard Annex, 1891-92; Assistant Professor of English Language and Literature, University of Illinois, 1892-97; Fellow in English, University of Chicago, 1897-98; Teacher of English, Austin High School, Chicago, 1899-1902.
- MARGUERITE SWEET, 1891-92.
Albany, N. Y. A.B., Vassar College, 1887; Ph.D., Bryn Mawr College, 1892. Graduate Student in Teutonic Philology and English, Bryn Mawr College, 1889-90, and Graduate Scholar in Teutonic Philology, 1890-91; Instructor in English, Vassar College, 1892-97; Professor of English Literature, Mt. Holyoke College, 1897-99; Teacher of English in the Misses Ely's School, New York City, 1899-1902.
- FLORENCE V. KEYS, 1892-93.
Toronto Ont. A.B., University of Toronto, 1891. Fellow in Greek, Bryn Mawr College, 1891-92; Graduate Student in English, Bryn Mawr College, 1895-96; Examiner in English, University of Toronto, 1894-95; Reader in English, Bryn Mawr College, 1893-97; University of Oxford, England, 1897-98; University of Berlin, 1898-99; Instructor in English, Vassar College, 1899-1902; Reader in English, College Entrance Examination Board, 1900-02.
- HELEN BARTLETT, 1893-94.
Peoria, Ill. A.B., Bryn Mawr College, 1892, A.M., 1893, and Ph.D., 1896. Newnham College, University of Cambridge, England, 1889; studied in Berlin, 1882-84, and 1890; Graduate Student in English, Bryn Mawr College, 1892-93; Holder of the American Fellowship of the Association of Collegiate Alumnae, and Graduate Student in English and German, Bryn Mawr College, 1894-95; Instructor in German and French in the Portland Academy, Portland, Ore., 1896-97; Dean of Women, Assistant Professor and Head of Department of German in the Bradley Polytechnic Institute, Peoria, 1897-1902.
- LAURA LUCINDA JONES, 1894-95.
Toronto, Ont. A.B., University of Toronto, 1891. Teacher of Modern Languages in the Collegiate Institute, Kingston, Ont., 1895-97; Teacher of English and Student in German in the Höhere Töchtersehule Segeler, Eberswalde, Berlin, 1897-98; Teacher of English, French, and German in the Collegiate Institute, Cobourg, Ont., 1898-1901.
- PHOEBE A. B. SHEAVYN, 1895-96.
Atherstone, England. Scholar, University College of Wales, Aberystwyth, Wales, 1887-89, and 1892-94; A.B., University of London, 1889, and A.M., 1894. Member of Governing Court of University of Wales, 1894; Reader in English, Bryn Mawr College, 1894-95; Lecturer and Tutor in English Literature to the Association for Promoting the Education of Women in Oxford, England, 1896-1901; Resident Tutor in English, Somerville College, University of Oxford, England, 1897-1900, and Resident Tutor and Lecturer, 1900-02.
- MARY DELIA HOPKINS, 1896-97.
Clinton, N.Y. A.B. and A.M., Bryn Mawr College, 1896. Graduate Student in English, Bryn Mawr College, 1897-98, and Reader in English, 1897-98 and 1899-1901.
- GEORGIANA GODDARD KING, 1897-98.
Norfolk, Va. A.B., Bryn Mawr College, and George W. Childs Prize Essayist, 1896, and A.M., 1897. Fellow in Philosophy, Bryn Mawr College, 1896-97; Student at the Collège de France, First Semester, 1898-99; Teacher of English, Philosophy, and Art in the Misses Graham's School, New York City, 1899-1902.
- CARRIE ANNA HARPER, 1898-99.
Charlestown, Mass. A.B., Radcliffe College, 1896, and A.M., 1898. Graduate Scholar in English, Bryn Mawr College, 1896-97; Graduate Student in English, Radcliffe College, 1897-98; Teacher of English in the Cambridge School, Cambridge, Mass., 1899-1902.
- LAURETTE EUSTIS POTTS, 1899-1900.
Philadelphia, Pa. A.B., Bryn Mawr College, 1897. Mistress of Pembroke Hall East, Bryn Mawr College, 1895-96; Sorbonne and Collège de France, 1896-97; Graduate Student in English, Bryn Mawr College, 1897-98, and Reader in English, 1897-99; Student in English, University of Munich, 1900-01; Sorbonne and Collège de France, 1901-02.

* Mrs. John Henry Huddleston, 1894.

EDITH SOPHIA HOOPER, 1900-01.
Kent, England. A.M., University of Edinburgh, 1899; Honours in Philosophy, 1899, in English, 1900.

A fellowship in Teutonic Languages was established by the Trustees in 1893, and has been held by the following students:

HELEN WINNIFRED SHUTE MOULTON,* 1893-94.
Exeter, N.H. A.B., Smith College, 1887. Assistant in German, Smith College, 1887-93; Fellow by Courtesy in German and Teutonic Philology, Bryn Mawr College, 1894-95; Student in Teutonic Philology, University of Göttingen, 1895-99.

MINNA STEELE SMITH, 1894-96.
Edinburgh, Scotland. Newnham College, University of Cambridge, England, 1890-94; Medieval and Modern Languages Tripos, First Class, 1893; Assistant Lecturer in English, Newnham College, 1896-98; Staff Lecturer in Medieval and Modern Languages, Newnham College, and Lecturer in English, Girton College, University of Cambridge, 1898-1902.

MINNIE ELIZABETH HIGHT, 1896-97.
Cobourg, Ont. A.B., Victoria College, University of Toronto, 1891, and A.M., 1892; Ph.M., Cornell University, 1894, and Ph.D., 1895. Teacher of Modern Languages, Boumanville High School, 1892-93; Professor of Modern Languages, State Normal School, New Paltz, N. Y., 1897-1901; University of Berlin, 1901-02.

SOPHIE YHLEN OLSEN, 1899-1900.
Philadelphia, Pa. A.B., Bryn Mawr College, 1898, and A.M., 1899. Graduate Scholar in English and Teutonic Philology, Bryn Mawr College, 1898-99; Student in Norse Philology, University of Copenhagen, and University of Leipsic, 1900-01; of Copenhagen University, 1901-02.

MARGERETHE URDAHL, 1900-01.
Medford, Wis. L.B., University of Wisconsin, 1896. Student, University of Berlin, 1898 and 1899; University of Heidelberg, Summer term, 1899; University of Christiania, October, 1899; Fellow in Teutonic Philology, Bryn Mawr College, 1901-02.

A fellowship in Romance Languages was established by the Trustees in 1893, and has been held by the following students:

THÉRÈSE F. COLIN,† 1893-94.
Paris, France. Diplômée et agrégée, Académie de Neuchâtel, 1875; A.M., Leland Stanford, Jr., University, 1893; Ph.D., University of Pennsylvania, 1897. Muséum d'Histoire Naturelle, Paris, 1883-85; University of the City of New York, 1887-88; Reader in Romance Languages, and Graduate Student in Romance Philology, Bryn Mawr College, 1894-96; Student in Romance Philology and Literature, Sorbonne, Collège de France, Ecole des Hautes Etudes, Ecole des Chartes, Paris, 1895; Head of French Department in Miss Florence Baldwin's School, Bryn Mawr, Pa., 1896-1902.

ESTHER TONTANT DE BEAUREGARD, 1894-95.
New Orleans, La. A.B., University of Toronto, 1894. Ontario Normal College, 1895-96; Teacher of Modern Languages, Niagara Falls Collegiate Institute, 1898-1900; Graduate Student in English, University of Pennsylvania, 1900-01; Teacher of English and French in Mrs. Chapman and Mrs. Jones's School, Chestnut Hill, Philadelphia, Pa., 1900-02.

ANNA LEWIS COLE, 1895-96.
Baltimore, Md. A.B., Woman's College of Baltimore, 1892, and A.M., 1894. Student in English and French, Sorbonne, 1894-95; Head Teacher of Modern Languages, Winthrop Normal and Industrial College, Rock Hill, S. C., 1897-1902.

CHARLOTTE DE MACKLOT THOMPSON, 1896-97.
Baltimore, Md. A.B., Bryn Mawr College, 1896, and A.M., 1897. Student in Old Spanish under Prof. A. Marshall Elliott, Baltimore, 1897-98; Assistant in English, Bryn Mawr School, Baltimore, 1897-98; Student in Medieval History, Newnham College, University of Cambridge, England, 1898-99, University of Oxford, 1899-1901.

* Mrs. Warren J. Moulton, 1900.

† Mrs. Alfred Colin.

EDITH FAHNESTOCK, 1897-98.
Harrisburg, Pa. L.B., Western Reserve University, 1894. University of Zürich, and Sorbonne, 1894-96; Mistress of Modern Languages, Mississippi Industrial Institute and College, Columbus, Miss., 1898-1901; Graduate Scholar and Fellow by Courtesy in Romance Languages, Bryn Mawr College, 1901-02.

CAROLINE BROWN BOURLAND, 1898-99.
Peoria, Ill. A.B., Smith College, 1893. Teacher of French and German in Mrs. Starratt's School, Oak Park, Ill., 1895-96, and in the High School, Peoria, 1896-97; Student, Sorbonne and Collège de France, 1897-98; Graduate Scholar and Fellow by Courtesy in Romance Languages, Bryn Mawr College, 1899-1900; Holder of the Mary E. Garrett European Fellowship and Student in Romance Languages, Madrid, Spain, 1900-01; Graduate Scholar and Fellow by Courtesy in Romance Languages, Bryn Mawr College, 1901-02.

ANABELLE ROXBURGH HUTCHINSON, 1899-1900.
York, England. Newnham College, University of Cambridge, England, 1895-99; Mediæval and Modern Languages Tripos, 1898.

REBECCA SHAPIRO, 1900-01.
Madison, Wis. L.B., University of Wisconsin, 1898, and L.M., 1900. Graduate Student, University of Wisconsin, 1899-1900.

A fellowship in History and Politics was established by the Trustees in 1885, and has been held by the following students :

JANE M. BANCROFT ROBINSON, * 1885-86.
West Stockbridge, Mass. Ph.B., Syracuse University, 1877, Ph.M., 1880, and Ph.D., 1884. Professor of French Language and Literature, Northwestern University, 1877-85; University of Zürich, 1886-87; Sorbonne and Collège de France, 1888.

LUCY MAYNARD SALMON, 1886-87.
Fulton, N. Y. A.B., University of Michigan, 1876, and A.M., 1883. Teacher of History in the Indiana State Normal School, 1883-86; Associate Professor of History, Vassar College, 1887-89, and Professor of History, 1889-1902.

CORA AGNES BENNESON, 1887-88.
Quincy, Ill. A.B., University of Michigan, 1878, LL.B., 1880, and A.M., 1883. Attorney and Counsellor-at-Law, Cambridge, Mass., 1894-1902.

HANNAH ROBIE SEWALL, 1888-89.
St. Paul, Minn. A.B., University of Minnesota, 1884, and Ph.D., 1899; A.M., University of Michigan, 1887. Fellow by Courtesy in History, Bryn Mawr College, 1889-90; Assistant in Political Science, University of Minnesota, 1893-1901; Special Agent, Bureau of Labor, 1901-02.

ELEANOR LOUISA LORD, 1889-90.
Malden, Mass. A.B., Smith College, 1887, and A.M., 1890; Ph.D., Bryn Mawr College, 1898. Instructor in History, Smith College, 1890-94; Holder of the European Fellowship of the Women's Educational Association of Boston, and Student in History, Newnham College, University of Cambridge, England, 1894-95; Fellow in History, Bryn Mawr College, 1895-96; Instructor in History, Woman's College of Baltimore, 1897-1901, and Associate Professor, 1901-02.

AGNES MATHILDE WERGELAND, 1890-91.
Christiania, Norway. Studied under the direction of Prof. Konrad Maurer, Munich, 1884-86; University of Zürich, 1888-90; Ph.D., University of Zürich, 1890. Reader in History of Art, Bryn Mawr College, 1891-93; Docent in History, University of Chicago, 1896-1902.

CAROLINE MILES HILL, † 1891-92.
Carthage, Ind. A.B., Earlham College, 1887; A.M., University of Michigan, 1890, and Ph.D., 1892. Teacher of Latin in Friends' Academy, Bloomingdale, Ind., 1888-89; University of Michigan, 1889-91; Instructor in Philosophy and Political Economy, Mt. Holyoke College, 1892-93; Tutor in History, Wellesley College, 1893-94, and Instructor in Psychology, 1894-95; University Extension Work, Chicago, Ill., 1897-1900; Assistant Reference Librarian, John Crerar Library, Chicago, 1900-02.

* Mrs. George O. Robinson, 1891.

† Mrs. William Hill, 1895.

JANE BOWNE HAINES, 1892-93.
Cheltenham, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1892. Graduate Student in History and Political Science, Bryn Mawr College, 1891-92 and 1893-94; Associate Librarian, Bryn Mawr College, 1895-98; New York State Library School, Albany, N.Y., 1898-99; Assistant in the Cataloguing Department, Library of Congress, Washington, D.C., 1900-02.

JANE LOUISE BROWNELL, 1893-94.
Bristol, Conn. A.B., Bryn Mawr College, 1893, and A.M., 1894. Teacher of Mathematics in the Bryn Mawr School, Baltimore, Md., 1894-1901, and Associate Mistress, 1897-1902.

NELLIE NEILSON, 1894-95.
Philadelphia, Pa. A.B., Bryn Mawr College, 1893, A.M., 1894, and Ph.D., 1899. Graduate Student in English and History, Bryn Mawr College, 1893-94; Holder of the American Fellowship of the Association of Collegiate Alumnae, and Graduate Student in English and History, Bryn Mawr College, 1895-96; Research Work in History in Cambridge, England, and in the Public Record Office, London, 1896-97; Private Research Work and Teacher of History in Miss Irwin's School, Philadelphia, 1897-1900; Graduate Student in History, Bryn Mawr College, 1900-01, and Reader in English, 1900-02.

ELEANOR LOUISA LORD, 1895-96.
Malden, Mass. A.B., Smith College, 1887, and A.M., 1890; Ph.D., Bryn Mawr College, 1898. Fellow in History, Bryn Mawr College, 1889-90; Instructor in History, Smith College, 1890-94; Holder of the European Fellowship of the Women's Educational Association of Boston, and Student in History, Newnham College, University of Cambridge, England, 1894-95; Instructor in History, Woman's College of Baltimore, 1897-1901, and Associate Professor, 1901-02.

ELLEN MAUD GRAHAM, 1896-97.
Toronto, Ont. A.B., University of Toronto, 1896.

EMILY FOGG MEADE, * 1897-98.
Chicago, Ill. Wellesley College, 1889-91; A.B., University of Chicago, 1897. Graduate Scholar and Fellow by Courtesy in History, Bryn Mawr College, 1898-99; Fellow in Sociology, University of Pennsylvania, 1899-1900; Student, University of Pennsylvania, and Teacher of History and Economics in Mrs. Head's School, Germantown, Philadelphia, and in the Misses Shipley's School, Bryn Mawr, Pa., 1900-01.

EDITH BRAMHALL, 1898-99.
Chicago, Ill. A.B., University of Indiana, 1895; A.M., University of Pennsylvania, 1896; and Ph.D., 1898. Teacher of History in the Manual Training High School, Indianapolis, Ind., 1899-1900; Instructor in History and Economics, Rockford College, Ill., 1900-02.

RUTHELLA BERNARD MORY, 1899-1900.
Baltimore, Md. A.B., Woman's College of Baltimore, 1897; Ph.M., University of Chicago, 1899. Student in English and History, University of Oxford, England, 1897-98; Graduate Student in History and History of Art, University of Chicago, 1898-99; Research Work in History in the British Museum and in the Public Record Office, London, 1900-01.

GRACE ELIZABETH MCNAIR, 1900-01.
Brodhead, Wis. L.B., University of Wisconsin, 1898, and L.M., 1899. Assistant in History in the High School, Madison, Wis., 1899-1900.

A fellowship in Philosophy was established by the Trustees in 1896, and has been held by the following students:

GEORGIANA GODDARD KING, 1896-97.
Norfolk, Va. A.B., Bryn Mawr College, and George W. Childs Prize Essayist, 1896 and A.M., 1897. Fellow in English, Bryn Mawr College, 1897-98; Student at the Collège de France, First Semester, 1898-99; Teacher of English, Philosophy, and Art, in the Misses Graham's School, New York City, 1899-1902.

FLORENCE PARTHENIA LEWIS, 1898-99.
Fort Scott, Kan. A.B., University of Texas, 1897, and A.M., 1898. Holder of the President's European Fellowship and Student in Philosophy, Sorbonne and Collège de France, 1899-1900; Teacher in the University Preparatory School, Austin, Tex., 1900-02; Student of Mathematics, University of Texas, 1901-02.

* Mrs. Edward Sherwood Meade, 1900.

MARY KEYT ISHAM, 1899-1900.

Cincinnati, O. A.B., Wellesley College, 1894; A.M., University of Cincinnati, 1898. Graduate Student in Philosophy and Psychology, University of Cincinnati, 1897-98; Graduate Student in Philosophy and Psychology, University of Chicago, 1898-99; Lecturer on Psychology, Laura Memorial Medical College, Cincinnati, O., 1900-02.

MARGARET EDITH HENRY, 1900-01.

Lincoln, Neb. A.B., University of Nebraska, 1898, and A.M., 1900. Graduate Scholar in Philosophy, University of Nebraska, 1898-99, and Fellow, 1899-1900; Graduate Student, Radcliffe College, 1901-02.

A fellowship in Mathematics was established by the Trustees in 1885, and has been held by the following students:

ELLA C. WILLIAMS, 1885-86.

Watkins, N. Y. A.M., University of Michigan, 1880; Studied under Professor Schwarz of Göttingen, 1883-85; Newnham College, University of Cambridge, England, spring term, 1884; Teacher of Mathematics in Miss Moses's School, New York City, 1886-87; Teacher of Mathematics in the State Normal School, Plymouth, N. H., 1887-89; Teacher of Mathematics in Miss Spence's School, New York City, 1896-98.

ANNE A. STEWART, 1886-87.

West Bay, Nova Scotia. Studied in University College, London, 1880-82; B.Sc., Dalhousie College, 1886. Teacher of Mathematics in Miss Mary E. Stevens's School, Germantown, Philadelphia, 1887-93 and 1895-96; Student in Mathematics and Physics, Newnham College, University of Cambridge, England, 1893-95; Teacher of Mathematics in the Stevens School, Germantown, Philadelphia, 1896-99; Private Tutor, 1901-02.

ELIZABETH MILLER BLANCHARD, 1889-90.

Bellefonte, Pa. A.B., Bryn Mawr College, 1889. Teacher of Mathematics in the Bryn Mawr School, Baltimore, Md., 1891-92; Tutor in Mathematics in the Misses Shipley's School, Bryn Mawr, Pa., 1894-1902; Tutor in Mathematics in Miss Irwin's School, Philadelphia, 1896-1902.

RUTH GENTRY, 1890-91.

Stilesville, Ind. Ph.B., University of Michigan, 1890; Ph.D., Bryn Mawr College, 1896. Holder of the European Fellowship of the Association of Collegiate Alumnae, and Student in Mathematics, University of Berlin, 1891-92; Student at the Sorbonne, and Fellow in Mathematics, Bryn Mawr College, 1892-93, and Fellow by Courtesy, 1893-94; Instructor in Mathematics, Vassar College, 1894-1900; and Associate Professor of Mathematics, 1900-02.

MARY FRANCES WINSTON NEWSON,* 1891-92.

Forreston, Ill. A.B., University of Wisconsin, 1889; Ph.D., University of Göttingen, 1896. Teacher of Mathematics, Downer College, Wisconsin, 1889-91; Holder of the European Fellowship of the Association of Collegiate Alumnae, 1893-94; Student in Mathematics, University of Göttingen, 1893-96; Professor of Mathematics, Kansas State Agricultural College, 1897-1900.

RUTH GENTRY, 1892-93.

Stilesville, Ind. Ph.B., University of Michigan, 1890; Ph.D., Bryn Mawr College, 1896. Fellow in Mathematics, Bryn Mawr College, 1890-91; Holder of the European Fellowship of the Association of Collegiate Alumnae, and Student in Mathematics, University of Berlin, 1891-92, Sorbonne, 1892-93; Fellow by Courtesy in Mathematics, Bryn Mawr College, 1893-94; Instructor in Mathematics, Vassar College, 1894-1900; and Associate Professor of Mathematics, 1900-02.

ISABEL MADDISON, 1893-94.

Reading, England. University College of South Wales and Monmouthshire, 1885-89; Girton College, University of Cambridge, England, 1889-92; Mathematical Tripos, 1892; Oxford Mathematical Final Honour School, 1892; B.Sc., University of London, Mathematical Honours, 1893; Ph.D., Bryn Mawr College, 1896. Graduate Student in Mathematics, Bryn Mawr College, 1892-93; Holder of the Mary E. Garrett European Fellowship, and Student in Mathematics, University of Göttingen, 1894-95; Assistant Secretary to the President, Bryn Mawr College, 1895-96; Secretary to the President and Reader in Mathematics, Bryn Mawr College, 1896-1902.

* Mrs. Henry Byron Newson, 1900.

FRANCES HARDCASTLE, 1894-95.
London, England. Girton College, University of Cambridge, England, 1888-92; Mathematical Tripos, Part I., 1891; Part II., 1892. Graduate Student in Mathematics, Bryn Mawr College, 1892-93; Honorary Fellow in Mathematics, University of Chicago, 1893-94; Graduate Student in Mathematics, Girton College, University of Cambridge, 1895-96.

EMILIE NORTON MARTIN, 1895-96.
Ardmore, Pa. A.B., Bryn Mawr College, 1894, and Ph.D., 1901. Graduate Student in Mathematics and Physics, Bryn Mawr College, First Semester, 1894-95, and 1896-97; Teacher of Latin in the Bryn Mawr School, Baltimore, Md., January-June, 1895; Holder of the Mary E. Garrett European Fellowship and Student in Mathematics, University of Göttingen, 1897-98; Fellow by Courtesy in Mathematics, Bryn Mawr College, 1898-99; Teacher of Mathematics in the Misses Kirk's School, Rosemont, Pa., 1899-1900; Private Tutor, 1899-1901; Graduate Student, Bryn Mawr College, 1901-02.

FANNY COOK GATES, 1896-97.
Waterloo, Ia. L.B., Northwestern University, 1894, and L.M., 1895. Fellow in Mathematics, Northwestern University, 1894-95; Graduate Scholar in Mathematics, Bryn Mawr College, 1895-96; Holder of the European Fellowship of the Association of Collegiate Alumnae, and Student in Mathematics and Physics, University of Göttingen, 1897-98; Instructor in Physics, Woman's College of Baltimore, 1898-1901, and Associate Professor of Physics, 1901-02.

GERTRUDE LONGBOTTOM, 1897-98.
Louth, Lincolnshire, England. Girton College, University of Cambridge, England, 1893-97; Mathematical Tripos, Part I., 1896; Part II., 1897. Teacher of Latin in the Municipal Technical School, Louth, 1899-1901, and Teacher of Mathematics, 1901-02.

LOUISE D. CUMMINGS, 1898-99.
Hamilton, Ont. A.B., University of Toronto, 1895. Fellow in Mathematics, University of Pennsylvania, 1896-97; Examiner in Mathematics, University of Toronto, 1897; Graduate Student, University of Chicago, 1897-98; Fellow by Courtesy in Mathematics, Bryn Mawr College, 1900; Instructor in Mathematics, St. Margaret's College, Toronto, Ont., 1901-02.

ANNIE LYNDESAY WILKINSON, 1899-1900.
Philadelphia, Pa. A.B., Vassar College, 1897, and A.M., 1898. Babbitt Fellow of Vassar College and Graduate Scholar in German and Mathematics, Bryn Mawr College, 1898-99; Instructor in Mathematics, Vassar College, 1900-02.

A fellowship in Physics was established by the Trustees in 1896, and has been held by the following students :

FRANCES LOWATER, 1896-97.
Nottingham, England. B.Sc., University of London, 1900. University College, Nottingham, 1888-91 and 1892-93; Newnham College, University of Cambridge, England, 1891-92. Secretary of Bryn Mawr College, 1898-99; Demonstrator in Physics, Bryn Mawr College, 1893-96, 1897-98, and 1899-1902, and Graduate Scholar in Physics, 1897-98.

LIZZIE REBECCA LAIRD, 1897-98.
Owen Sound, Ont. A.B., University of Toronto, 1896. Teacher in Ontario Ladies' College, 1896-97; Holder of the President's European Fellowship, and Student in Physics, University of Berlin, 1898-99; Graduate Scholar and Fellow by Courtesy in Physics, Bryn Mawr College, 1900-01; Instructor in Physics, Mt. Holyoke College, 1901-02.

MARY ISABEL NORTHWAY, 1900-01.
Toronto, Ont. A.B., University of Toronto, 1898. Ontario Normal College, 1898-99. Graduate Scholar in Physics, Bryn Mawr College, 1899-1900; Student of Domestic Science, 1901-02.

A fellowship in Chemistry was established by the Trustees in 1893, and has been held by the following students :

- EMMA HARRIET PARKER, 1893-94.
 Charleston, N. H. S.B., Smith College, 1887. Graduate Student in Chemistry, Bryn Mawr College, 1892-93, and Graduate Scholar in Chemistry, 1894-95; Instructor in Chemistry, Wellesley College, 1895-97; Teacher of Science, New Bedford High School, New Bedford, Mass., 1898-1900; Teacher of Chemistry, Newton High School, Newton, Mass., 1900-02.
- AMY CORDOVA ROCK RANSOME,* 1894-95.
 Washington, D. C. A.B., Bryn Mawr College, 1893. Assistant in Chemical Laboratory, and Graduate Student in Chemistry, Bryn Mawr College, 1893-94; Student in Chemistry, Mineralogy, and Physics, University of Heidelberg, 1895-96; Student in Mineralogy and Geology, University of Berlin, 1896-97.
- MARY PETTY, 1895-96.
 Greensboro, N. C. S.B., Wellesley College, 1885. Teacher of Latin, Guilford College, 1888-93; Teacher of Chemistry and Physics, in the State Normal School, Greensboro, 1893-95, and 1896-98, and Head of Department of Chemistry and Physics, 1898-1902.
- CHARLOTTE FAIRBANKS, 1896-97.
 St. Johnsbury, Vt. A.B., Smith College, 1894; Ph.D., Yale University, 1896. Graduate Student, Yale University, 1894-96; Instructor in Chemistry, Wellesley College, 1897-99; Student, Woman's Medical College of Pennsylvania, 1899-1902.
- MARY CLOYD BURNLEY, 1897-98.
 Williamsport, Pa. A.B., Woman's College of Baltimore, 1897, and A.M., 1899. Assistant in Chemistry, Vassar College, 1898-1900, and Instructor in Chemistry, 1900-02.
- MARGARET BAXTER MACDONALD, 1898-99.
 Charlottesville, Va. B.S., Mt. Holyoke College, 1898. Student Assistant in Chemical Laboratory, Mt. Holyoke College, 1895-97; Graduate Scholar in Philosophy and Chemistry, Bryn Mawr College, 1897-98; Pepper Fellow in Chemistry, University of Pennsylvania, 1899-1900; Graduate Scholar and Fellow by Courtesy in Chemistry, Bryn Mawr College, 1900-01; Professor of Chemistry and Physics, Asheville College, Asheville, N. C., 1901-02.
- MARIE REIMER, 1899-1900.
 East Aurora, N.Y. A.B., Vassar College, 1897. Graduate Scholar in Chemistry, Vassar College, 1897-98; Assistant in the Chemical Laboratory, Vassar College, 1898-99; Graduate Scholar and Fellow by Courtesy in Chemistry, Bryn Mawr College, 1900-01, and Fellow in Chemistry, 1901-02.
- WINONA ALICE HUGHES, 1900-01.
 Marion, O. Ph.B., University of Wooster, 1891. Graduate Student, Cornell University, Summer school, 1894; Harvard University, Summer school, 1895; University of Chicago, 1897-99; Teacher of Science in the Public Schools, Marion, O., 1892-97, and in the Mansfield High School, 1899-1900; Teacher of Science in the High School, Ottumwa, Iowa, 1901-02.
- A fellowship in Biology was established by the Trustees in 1885, and has been held by the following students:
- EFFIE A. SOUTHWORTH SPALDING,† 1885-86.
 North Collins, N.Y. S.B., University of Michigan, 1885. Student Assistant in the Biological Laboratory, Bryn Mawr College, 1886-87; Assistant Mycologist of the United States Agricultural Bureau, Washington, D. C., 1887-92; Assistant in Botany, Barnard College, 1892-95.
- MARCELLA I. O'GRADY BOVERI,‡ 1887-89.
 Boston, Mass. S.B., Massachusetts Institute of Technology, 1885. Teacher of Science in the Bryn Mawr School, Baltimore, Md., 1885-87; Demonstrator in Biology, Bryn Mawr College, 1887-89; Associate Professor of Biology, Vassar College, 1889-93; Professor of Biology, Vassar College, 1893-97.
- HARRIET RANDOLPH, 1889-90.
 Philadelphia, Pa. A.B., Bryn Mawr College, 1889; Ph.D., University of Zürich, 1892. Student, University of Zürich, 1890-92; Demonstrator in Biology, Bryn Mawr College, 1892-1902, and Reader in Botany, 1893-1902; Graduate Student in Italian Art, Bryn Mawr College, 1896-97.

* Mrs. Frederick Leslie Ransome, 1899. † Mrs. Volney Morgan Spalding, 1896.
 ‡ Mrs. Theodor Boveri, 1897.

- JEAN KIRK HOWELL, 1891-92.
Painted Post, N. Y. Ph.B., Cornell University, 1888, and S.M., 1890. Assistant in Botany, Barnard College, 1892-96; Teacher of Science in the Phillips High School, Watertown, Mass., 1898-99; Teacher of Science in Miss Ingol's School, Cambridge, Mass., 1899-1902.
- IDA H. HYDE, 1892-93.
Chicago, Ill. S.B., Cornell University, 1891; Ph.D., University of Heidelberg, 1896. Student Assistant in Biology, Bryn Mawr College, 1891-92; Holder of the European Fellowship of the Association of Collegiate Alumnae, and Student in Biology, University of Strassburg, 1893-94; Holder of the Phebe Hunt Fellowship of the Association of Collegiate Alumnae and Student in Biology, University of Heidelberg, 1894-96; Teacher of Science in Miss Ingol's School, Cambridge, Mass., 1898-99; Associate Professor of Physiology, University of Kansas, 1899-1902.
- ELIZABETH NICHOLS MOORES,* 1893-94.
Philadelphia, Pa. A.B., Bryn Mawr College, 1893. Graduate Student in Biology, Bryn Mawr College, 1894-95; Teacher of Science in the Girls' High School, Philadelphia, 1895-96.
- ESTHER F. BYRNES, 1894-95.
Philadelphia, Pa. A.B., Bryn Mawr College, 1891, A.M., 1894, and Ph.D., 1898. Demonstrator in the Biological Laboratory, Vassar College, 1891-93; Graduate Scholar in Biology, Bryn Mawr College, 1893-94, and Graduate Student in Biology, 1895-97; Instructor in Physiology in the Girls' High School, Brooklyn, New York City, 1897-98, and Senior Teacher of Physiology and Teacher of Zoology, 1898-1902.
- CLARA LANGENBECK, 1895-96.
Cincinnati, O. Ph.G., Cincinnati College of Pharmacy, 1890; S.B., University of Cincinnati, 1895. Assistant in Biology, University of Cincinnati, 1893-95; Holder of the President's European Fellowship, Bryn Mawr College, 1896-97; Student in Biology, University of Marburg, 1896-98; Professor of Biology, Wells College, 1898-1901; Instructor in the Cincinnati Collegiate School for Girls, and Graduate Student, University of Cincinnati, 1901-02.
- FLORENCE PEEBLES, 1896-97.
Lutherville, Md. A.B., Woman's College of Baltimore, 1895. Graduate Scholar in Biology, Bryn Mawr College, 1895-96; and Graduate Student in Biology, 1897-98; Holder of the Mary E. Garrett European Fellowship, Scholar of the Women's Table and Student in Biology, Zoological Station, Naples, University of Munich, University of Halle, 1898-99; Instructor in Biology, Woman's College of Baltimore, 1899-1902.
- HELEN DEAN KING, 1897-98.
Owego, N. Y. A.B., Vassar College, 1892; Ph.D., Bryn Mawr College, 1901. Graduate Student in Biology, Vassar College, and Assistant in the Biological Laboratory, 1894-95; Graduate Scholar in Biology, Bryn Mawr College, 1895-96; Graduate Student in Biology, 1896-97; Fellow by Courtesy in Biology, 1898-1901, and Graduate Student in Biology, 1901-02.
- ANNAH PUTNAM HAZEN, 1898-99.
Olcott, Vt. L.B., Smith College, 1895; S.M., Dartmouth College, 1897. Graduate Student in Biology, Dartmouth College, 1895-96; Graduate Scholar in Biology, Bryn Mawr College, 1897-98; Teacher of Biology in the State Normal School, Plymouth, N. H., 1899-1900; Assistant in Zoology, Smith College, 1900-02.
- ELIZABETH WILLIAMS TOWLE, 1899-1900.
New Haven, Conn. A.B., Bryn Mawr College, 1898, and A.M., 1899. Graduate Scholar in Physics and Biology, Bryn Mawr College, 1898-99; Teacher of Natural Science in the High School, Middletown, Conn., 1900-01; Instructor in Biology, Rockford College, Rockford, Ill., 1901-02.
- AMELIA CATHERINE SMITH CALVERT,† 1900-01.
Philadelphia, Pa. S.B., University of Pennsylvania, 1899. Graduate Scholar in Biology, Bryn Mawr College, 1899-1900; Demonstrator in Zoology, University of Pennsylvania, 1901-02.

* Mrs. Charles W. Moores, 1896.

† Mrs. Philip Powell Calvert, 1901.

BRYN MAWR COLLEGE.

GRADUATE COURSES OF INSTRUCTION.

BRYN MAWR COLLEGE, situated at Bryn Mawr, Pennsylvania, five miles from Philadelphia, was endowed by Dr. Joseph W. Taylor, of Burlington, New Jersey, who purposed founding an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education that are so freely offered to young men." In the spring of 1885 the first program was issued, and the college opened for instruction in the following autumn.

Three classes of persons are admitted to the lectures and class work of the college—graduate students, undergraduate students, and hearers. For the convenience of graduate students the regulations of the graduate department and the graduate courses of instruction are published separately. No undergraduates are admitted to graduate courses.

Regulations of the Graduate Department.

From the first it has been the policy of the Trustees of Bryn Mawr College to organise no department in which they could not provide for graduate as well as undergraduate study. Only such instructors have been chosen as are qualified to direct both graduate and undergraduate work. In each department a consecutive series of graduate courses pursued throughout three years provides preparation in the chief or major subject of the examination for the degree of Doctor of Philosophy, and certain courses may be pursued for one or two years and offered as one of the two minor or secondary subjects.

Admission.

Graduate students must have presented a diploma from some college of acknowledged standing.* They may pursue any courses

* The certificates of the women's colleges of the English universities of Oxford and Cambridge, are regarded as equivalent to a first degree,—i.e., to the degree of Bachelor of Arts.

offered by the college for which their previous training has fitted them ; but they must satisfy the several instructors of their ability to profit by the courses they desire to follow, and may be required to pursue certain introductory or auxiliary studies before they are admitted to the advanced or purely graduate courses. They are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations, from the instructors, and their needs will be considered in the arrangement of new courses of lectures; they must consult the President in regard to the courses they are to pursue, and must be duly registered for those courses at the president's office.

A reading knowledge of French and German is regarded as of the utmost importance to all graduate students, and is required of all candidates for a second degree. The undergraduate department will afford the student every opportunity for making good any deficiencies in this respect.

Fellowships and Scholarships.

The most distinguished place among graduate students is held by the Fellows, who must reside in the college during the academic year. Eleven resident fellowships, of the value of five hundred and twenty-five dollars each, are awarded annually—one in Greek, one in Latin, one in English, one in German and Teutonic philology, one in Romance languages, one in history or political science, one in philosophy, one in mathematics, one in physics, one in chemistry, and one in biology. These fellowships are awarded as an honour in recognition of previous attainments. They are open to graduates of Bryn Mawr College, or of any other college of good standing, and will be awarded only to candidates who have completed at least one year of graduate study. Generally speaking, they will be awarded to the candidates that have studied longest, or whose work gives most promise of future success. Applications should be made as early as possible to the President of the College, and must be made not later than the fifteenth of April preceding the year for which the fellowship is desired. Blank forms for application will be forwarded to applicants by the President. A definite answer will be given within

two weeks of the last date fixed for application. The holder of a fellowship is expected to show, by the presentation of a thesis, or in some other manner, that her studies have not been without result. Fellows are expected to attend all college functions, to wear academic dress, to assist in the conduct of examinations, and to give about an hour a week to the care of the special libraries in the halls of residence and in the seminaries, but no such service may be required of them except by a written request from the president's office; they are not permitted, while holding the fellowship, to teach or to undertake any other duties in addition to their college work. All Fellows may study for the degree of Doctor of Philosophy, the fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts. Fellows that continue their studies at the college after the expiration of the fellowship, may, by vote of the Trustees, receive the rank of Fellows by Courtesy.

Eight Graduate Scholarships, of the value of two hundred dollars each, may, on the recommendation of the head of the department in question, be awarded to the candidates next in merit to the successful candidates for the fellowships; they are open also to all graduates of Bryn Mawr College or of other colleges of good standing. Scholars are expected to attend all college functions, to wear academic dress, and to assist in the conduct of examinations.

Two European Fellowships, founded by Miss Garrett, of Baltimore, are open to graduate students who are enrolled as candidates for the degree of Doctor of Philosophy. One, founded in 1896, and named by the donor the President M. Carey Thomas Fellowship, is awarded annually on the ground of excellence in scholarship to a student in her first year of graduate work at Bryn Mawr College; the other, founded in 1894, and known as the Mary E. Garrett Fellowship, is awarded annually on the ground of excellence in scholarship to a student still in residence who has for two years pursued graduate studies at Bryn Mawr College. These fellowships, of the value of five hundred dollars each, are intended to defray the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the Faculty.

Studies Leading to a Second Degree.

Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Academic Council that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may apply to the Academic Council to be enrolled as candidates for the degree of Doctor of Philosophy and Master of Arts; admission to the graduate school does not, in itself, qualify a student to become a candidate for this degree. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

The Degree of Master of Arts.

The candidate for the degree of Master of Arts must be a Bachelor of Arts of Bryn Mawr College, must have studied at Bryn Mawr College for at least one year after receiving this degree, and must have pursued either undergraduate courses not previously taken, amounting to ten hours a week, or graduate courses equivalent in time value to ten hours a week of undergraduate work. She may have devoted herself exclusively to a single subject, and must have taken in some one subject the equivalent of a five-hour course. If the courses taken are undergraduate courses, the student must pass the usual examinations with credit; if they are graduate, she must pass either a written examination, or an oral examination in the presence of the members of the Faculty, as may be preferred by the heads of the departments in which she has studied.

The Degree of Doctor of Philosophy and Master of Arts.

The degree of Doctor of Philosophy and Master of Arts may be conferred upon graduates of Bryn Mawr College, and upon graduates of other colleges who shall have satisfied the Academic Council either that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given by Bryn Mawr College, or that it has been adequately supplemented by subsequent study.

The candidate must have pursued for at least three years, after having received the first degree, a course of liberal (non-professional)

study at some college or university approved by the Academic Council, and must have spent at least two of these years at Bryn Mawr College. She must have written, on some subject connected with her chief subject of study, a dissertation that bears satisfactory evidence of original research, and must pass an oral examination in the presence of the members of the Faculty on one major or chief subject, and a written and an oral examination on two minor subjects. In special cases where one minor subject is substituted for the two minor or secondary subjects, the time spent on the one secondary subject must be equal to the time usually spent on the two minor subjects, and every combination of major and minor subjects for the final examination must have been submitted to the Graduate Committee, by whom, after due consultation with the heads of the departments concerned, it is submitted to the Academic Council. The candidate may be required to pursue certain auxiliary studies in connection with the subject that she has elected; and the degree of Doctor of Philosophy is given to no one who cannot read French and German, or who is unacquainted with Latin. The dissertation must have been printed by the candidate before she can be admitted to the degree of Doctor of Philosophy. The degree of Doctor of Philosophy will in no case be conferred by the College as an honorary degree.

Expenses.

The charge for tuition for graduate students attending six or more hours a week of lectures is one hundred and twenty-five dollars a year, payable half-yearly in advance. Those graduate students who do not take the full amount of work are charged for one hour a week of lectures, ten dollars a semester; for two hours a week of lectures, twenty dollars a semester; for three hours a week of lectures, thirty dollars a semester; and for four or five hours a week of lectures, forty dollars a semester, payable in advance. This arrangement is made especially for non-resident students, but those who wish to take only five hours a week of lectures or less, may live in the college halls on the understanding that they must give up their rooms if needed for students who are taking the full amount of graduate work and paying the regular tuition fee. The tuition fee for the semester becomes due as soon as the student is registered in the college office.

There is an additional charge of ten dollars a semester for materials and apparatus for every laboratory course of four or more hours a week, and of five dollars a semester for every laboratory course of less than four hours a week. The laboratory course in paleontology is an exception, the fee being five dollars a semester for five hours of laboratory work a week. Students taking the general course in geology pay a sum of eight dollars a semester, five dollars being the laboratory fee and three dollars a charge made to defray the expenses of the excursions. Special arrangements in regard to laboratory fees are made for graduate students taking five hours a week or less of lectures.

Residence.

Residence in the college buildings is optional except for holders of resident fellowships and scholarships. The expense of board and residence in the graduate wings of the college halls is two hundred and seventy-five dollars. Of this amount one hundred and seventy-five dollars is the charge for board, and is payable half-yearly in advance; the remainder is room-rent, and is payable yearly in advance. Every student has a separate bedroom. Room-rent includes all expense of furnishing, service, heating, and light.

Dr. Martha E. Osmond, a physician practising in Philadelphia, spends two afternoons a week, from two to six, at her office in the college, and may then be consulted by resident and non-resident graduate and undergraduate students free of charge.

The conduct of the students in all matters not purely academic, or affecting the management of the halls of residence, or the student body as a whole, is in the hands of the Students' Association for Self-Government. All resident students of Bryn Mawr College, whether graduates or undergraduates, are members of this association.

In 1893 the Bryn Mawr Graduate Club was organised by the graduate students then in residence, its object being to further the social life of the graduate students and to facilitate interchange of opinion with other colleges and universities doing graduate work. A suite of rooms in Denbigh Hall is set apart by the college to be used by the members as a club-room. Informal meetings are held frequently in these rooms, and several times during the year the club invites the Faculty and friends of the college to larger social gatherings, which are addressed by well-known speakers. The club belongs to the Federation of Graduate Clubs and sends its representatives to the meetings of the Federation.

Plans of the graduate wings of Denbigh Hall, Radnor Hall, and Pembroke Hall East, with a full account of the halls and tariff of rooms, may be obtained by application to the Secretary of the College. Each of these halls has its separate kitchen and dining hall, and provides accommodation for about sixty students; a special wing or corridor is reserved for graduate students, and in order to secure entire quiet no undergraduate students are permitted to engage rooms in the graduate wings.

Application for rooms should be made as early as possible. Since the demand for graduate rooms is very great, and every room unnecessarily reserved may prevent some other student from entering the college, a deposit of fifteen dollars is required in order that the application may be registered. In case the applicant enters the college in the year for which the room is reserved, the amount of the deposit is deducted from the first college bill. If she changes the date of her application or files formal notice of withdrawal at the Secretary's office before July first of the year for which the application is made, the deposit will be refunded. If, for any reason whatever, the change or withdrawal be made later than July first, the amount will be forfeited. Students making application for a room in February forfeit the deposit if they do not file formal notice of withdrawal at the Secretary's office before December first of the academic year for which the room is reserved. In order to make application for a room it is necessary to sign a room-contract, which will be sent on application, and return it with the fee of fifteen dollars to the Secretary of the College. A deposit of fifteen dollars must also be made by each student in residence in order to insure the tenure of her room for the following academic year. This sum will be forfeited if formal notice of withdrawal is not filed at the secretary's office on or before May first of the current year.

All students reserving rooms who do not inform the Secretary of their change of intention before September first of the academic year for which the room is reserved, are responsible for the rent of the room for the entire academic year. All students applying for rooms in February will be responsible for the rent of the room for the semester if they do not inform the Secretary of their change of intention before February first.

The rooms are completely furnished. No lamps, towels, table napkins, sheets, or supplies of any kind need be provided by the student. Every student is provided with a student's lamp, which is filled daily by the college servants. No part whatever need be taken by the student in the care of her own room. Carpets are not provided; the floors of the students' rooms are oiled and kept in good condition by the college, but students are expected to provide their own rugs.

There are open fire-places in nearly all the studies, but the rooms are sufficiently heated by steam. The students' personal washing may be done by any laundry recommended by the college for 50 cents a dozen, or about \$8 a half-year for one dozen pieces a week. Accommodation is provided for students that wish to remain at the college during the Christmas and Easter vacations at a rate proportional to that paid by them for board and residence during the college year. No charge is made for sending meals to students that are in the infirmaries by the order of a physician.

The charge for tuition is \$125 a year, payable half yearly in advance.

The charge for residence in the graduate wings of the college halls, exclusive of board, is \$100 a year, payable in advance.

The charge for board is \$175 a year, payable half-yearly in advance. The charges for room-rent for the year, and for tuition and board for the first semester must be paid at the bursar's office before November 1st; the charges for tuition and board for the second semester must be paid before March 1st. The charges for tuition and room-rent are not subject to return or deduction under any circumstances; in case of prolonged illness and absence from the college extending over six weeks or more there is a proportional reduction in the charge for board. Students whose fees are not paid by the dates above specified will not be allowed to continue in residence or in attendance on their lectures.

THE STUDENTS' LOAN FUND OF BRYN MAWR COLLEGE was founded by the class of 1890 for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed is distributed in the form of partial aid, and as a loan. It is as a rule applied to the assistance of those students only who have attended courses in the college for at least one year. The Fund is managed by a committee consisting of the President of the College and representatives of the Association of Bryn Mawr College Alumnae. The committee reports yearly to the Board of Trustees and to the Alumnae Association. The committee consists of the following members: President M. Carey Thomas; Miss Mary E. Converse, Chairman, Rosemont, Pa.; Miss Martha G. Thomas, Secretary and Treasurer, Bryn Mawr College; Miss Elizabeth B. Kirkbride, 1406 Spruce Street, Philadelphia; Miss Charly Tiffany Mitchell, 27 E. Seventy-second Street, New York City, and Miss Marion Reilly, 2015 DeLancey Place, Philadelphia. Contributions may be sent to any member of the committee. Applications for loans should be sent to the Chairman of the Committee, Miss Mary E. Converse, and all applications for loans for any given year should be made to the Chairman before May 1st of the preceding academic year.

Libraries.

The fact that the college is situated in the suburbs of Philadelphia, enables the student to make use of all the resources of the libraries of Philadelphia, as well as of those of the college proper.

The college library has been collected within the past sixteen years, and is designed to be, as far as possible, a library for special study. There are at present on its shelves over thirty-six thousand bound volumes, and eight thousand doctors' dissertations and pamphlets, the collection including the classical library of the late Professor Sauppe, of Göttingen, which was presented to the college in 1894. The library of the late Professor Amiaud, of Paris, was acquired in 1892, and at present forms part of the library of the college. It is a good working library for the student in every department of Semitic study. A more detailed description of these two collections may be found on pages 40 and 61.

The sum of three thousand dollars is expended yearly for books, under the direction of the heads of the several collegiate departments, and, in addition to many gifts of books, over fifteen thousand dollars has been presented to the library during the past nine years for expenditure in special departments. Three hundred and twenty-five serial publications and reviews in the English, German, Greek, French, Italian, Spanish, Norse, and Swedish languages, are taken by the library as follows:

Academy; Acta mathematica; *Advocate of peace; Allgemeines statistisches archiv; American anthropologist; American chemical journal; *American economist; American friend; American geologist; American historical review; American journal of archaeology; American journal of mathematics; American journal of philology; American journal of physiology; American journal of psychology; American journal of science; American journal of Semitic languages; American journal of sociology; Americana Germanica; Anatomischer anzeiger; Anglia; Annalen der chemie; Annalen der physik und chemie; Annales de chimie et de physique; Annales scientifiques de l'École normale supérieure; Annali di matematica; Annals of the American academy of political and social science; L'année psychologique; Archiv für anatomie und physiologie; Archiv für das studium der neueren sprachen und literaturen; Archiv für die gesammte physiologie; Archiv für geschichte der philosophie; Archiv für lateinische lexicographie; Archiv für mikroskopische anatomie; Archiv für systematische philosophie; Archivio glottologico italiano; Arkiv for nordisk filologi; Athenæum; Atlantic monthly; Atti della Reale accademia delle scienze di Torino; Babylonian and Oriental record; Baptist missionary magazine; Beiblätter zu den Annalen der physik und chemie; Beilage zur allgemeinen zeitung; Beiträge zur geschichte der deutschen sprache und literatur; Beiträge zur kunde der indogermanischen sprachen; Berichte der Deutschen chemischen gesellschaft; Berliner philologische wochenschrift; Biblical world; *Bibliographical contributions of Bowdoin college library; *Bibliographical contributions of Harvard university; Bibliotheca mathematica; Bibliotheca philologica classica; Bibliotheca sacra; Bibliothèque de la faculté des lettres de l'université de Paris; Biologisches centralblatt; Biometrika; Bolletino di bibliografia e storia delle scienze matematiche; *Book news; Bookman; Bookseller; *Boston evening transcript; Botanische zeitung; Botanisches centralblatt; Bryn Mawr College monographs; Bulletin bibliographique et pédagogique; Bulletin de correspondance hellénique; Bulletin de la Société des anciens textes français; Bulletin de la Société mathématique de France; Bulletin des sciences mathématiques; Bulletin hispanique; Bulletin italien; Bulletin of American

* Presented by the Publishers.

mathematical society; *Bulletin of bibliography; *Bulletin of the Free library of Philadelphia; *Bulletin of the New York public library; *Bulletins of the New York state library; *Bulletins of the University of Wisconsin; Centralblatt für mineralogie; Centralblatt für physiologie; Century magazine; Chancery society publications; *City and state; Classical review; Columbia law review; *Columbia university quarterly; Comptes rendus des séances de l'Académie des sciences; Contemporary review; Critic; La cultura; Cumulative index to periodicals; *Deaconess' advocate; Deutsche literaturzeitung; Deutsche rundschau; Dial; Early English text society publications; Economic journal; Economic review; Education; Educational review (Amer.); Educational review (Eng.); Electrician; Englische studien; English historical review; Ephemeris archaëlogike; España moderna; Euphorion; *Everybody's magazine; Expositor; Expository times; *Fortnightly Philistine; Fortnightly review; Forum; Französische studien; *Friends' missionary advocate; Geographische zeitschrift; Geological magazine; Geologisches centralblatt; Germanic studies; Giornale dantesco; Giornale di matematiche di Battaglini; Giornale storico della letteratura italiana; Goethe-jahrbuch; Göttingische gelehrte anzeigen; Gymnasium; Harper's magazine; Harper's weekly; Hartford seminary record; Harvard law review; Harvard studies in classical philology; Hermes; Historische vierteljahrschrift; Historische zeitschrift; *Hochschulnachrichten; Indogermanische forschungen; International journal of ethics; International monthly; Islendinga sögur; Jahrbuch der chemie; Jahrbuch der Deutschen Shakespeare gesellschaft; Jahrbuch des Kaiserlich deutschen archäologischen instituts; Jahrbuch des vereins für niederdeutsche sprachforschung; Jahrbuch über die fortschritte der mathematik; Jahrbücher für wissenschaftliche botanik; Jahresbericht über die erscheinungen auf dem gebiete der germanischen philologie; Jahresbericht für literaturgeschichte; Jahresberichte über die fortschritte der chemie; Jahresbericht über die fortschritte der klassischen alterthumswissenschaft; Jahresverzeichniss der an den deutschen schulanstalten erschienenen abhandlungen; Jahresverzeichniss der an den deutschen universitäten erschienenen schriften; *Johns Hopkins university circulars; Johns Hopkins university studies; Journal de mathématiques; Journal de physique; Journal des débats; Journal für die reine und angewandte mathematik; Journal für praktische chemie; Journal of American folklore; Journal of Biblical literature; Journal of Germanic philology; Journal of Hellenic studies; Journal of pedagogy; Journal of philology; Journal of physiology; Journal of political economy; *Journal of prison discipline; Journal of school geography; *Journal of the Academy of natural sciences; Journal of the Chemical society; Journal of the Royal microscopical society; Journal of the Royal statistical society; Journal of the Society for psychical research; *Kansas university quarterly; Korrespondenzblatt des Vereins für niederdeutsche sprachforschung; Kritischer jahresbericht über die fortschritte der romanischen philologie; *Lantern; Leipziger studien; Library journal; Literarisches centralblatt; *Literary era; *Literary news; *Literary world; Literaturblatt für germanische und romanische philologie; Literature; Mathematische annalen; Mercure de France; Messenger of mathematics; Mind; Mineralogical magazine; Mineralogische und petrographische mittheilungen; Mittheilungen aus der zoologischen station zu Neapel; Mittheilungen aus dem gebiete der englischen sprache und literatur; Mittheilungen des Kaiserlichen deutschen archäologischen instituts; Mnemosyne; Modern language notes; Monatshefte für chemie; Monist; Monthly review; *Monthly weather review; Le musée belge; Nachrichten von der Königlichen gesellschaft der wissenschaften; Nation; National geographic magazine; Nature; Neue deutsche rundschau; Neue jahrbücher für philologie und pädagogik; Neues jahrbuch für mineralogie, geologie und paläontologie; New York evening post; *New York Latin leaflet; New York times; New York tribune; Nineteenth century; North American review; Nuova antologia; *Oberlin college bulletins; *Ohio bulletin of charities and corrections; Outlook; Palestra; Pedagogical seminary; Pennsylvania magazine; Petermann's mittheilungen; *Philadelphia public ledger; Philologische-untersuchungen; Philologus; Philosophical magazine; Philosophical review; Philosophische studien; Poet lore; Political science quarterly; Popular science monthly; Preussische jahrbücher; Proceedings of the Academy of natural sciences; *Proceedings of the Association of colleges and preparatory schools of the Middle States and Maryland; Proceedings of the London mathematical society; *Proceedings of the Michigan school-

masters' club; Proceedings of the Royal society; Proceedings of the Society for psychical research; Psychological review; Psychologische arbeiten; Publications of the American academy of political and social science; Publications of the American economic association; Publications of the American historical association; Publications of the American Jewish historical society; Publications of the American statistical association; *Publications of the Association of collegiate alumnae; Publications of the Modern language association; *Publications of the Philippine information society; Publications of the Selden society; *Publications of the University of Pennsylvania; Publisher's weekly; Punch; Quarterly journal of economics; Quarterly journal of mathematics; Quarterly journal of microscopical science; Quarterly journal of the Geological society; Quarterly review; Quellen und forschungen; Rassegna bibliografica; Rendiconti del circolo matematico di Palermo; Review of education; Review of reviews; Revista critica; Revista de archivos; Revue bleue; Revue celtique; Revue critique; Revue d'histoire littéraire de la France; Revue de l'hypnotisme; Revue de métaphysique; Revue de philologie; Revue des deux mondes; Revue des études grecques; Revue des questions historiques; Revue hispanique; Revue historique; Revue internationale de l'enseignement supérieure; Revue philosophique; Rheinisches museum für philologie; Rivista di filologia; Romania; Romanische forschungen; Romanische studien; *Salvation; Saturday review; Schriften der Goethe-gesellschaft; Science; Scottish text society publications; Scribner's magazine; *Sound currency; *Southern workman; Spectator; Studi italiani di filologia classica; Studies in history, economics, and public law; Studi di filologia romanza; *Sunday school times; *Technology review; Toronto university studies; Transactions of American philological association; Transactions of the American mathematical society; Transactions of the American philosophical society; Translations and reprints from original sources of European history; *University of Chicago record; Westminster review; Wochenschrift für klassische philologie; Wochentliches verzeichniss des deutschen buchhandels; World's work; Yale review; Zeitschrift für anorganische chemie; Zeitschrift für assyriologie; Zeitschrift für das gymnasialwesen; Zeitschrift für den deutschen unterricht; Zeitschrift für deutsche philologie; Zeitschrift für deutsche wortforschung; Zeitschrift für deutsches alterthum; Zeitschrift für die österreichischen gymnasien; Zeitschrift für französische sprache; Zeitschrift für hypnotismus; Zeitschrift für mathematik und physik; Zeitschrift für physikalische chemie; Zeitschrift für psychologie; Zeitschrift für romanische philologie; Zeitschrift für socialwissenschaft; Zeitschrift für vergleichende literaturgeschichte; Zeitschrift für vergleichende sprachforschung; Zeitschrift für wissenschaftliche zoologie; Zoologischer anzeiger.

The library is open daily from eight A.M. to ten P.M., and books may be taken out by the students during these hours.

There are in Philadelphia the following important libraries:

The *Philadelphia Library*, which contains about 190,000 volumes, and is at all times open to the students for consultation. Private subscription, for four volumes, \$12 a year, or \$10 for nine months.

The *Mercantile Library*, which contains about 189,000 volumes and 10,000 pamphlets. Private subscription, \$2.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains about 51,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

The *Library of the University of Pennsylvania*, which contains about 200,000 volumes and 50,000 pamphlets. The custodians of this library have always shown great courtesy in placing rare volumes at the disposal of the college.

Sanskrit and Comparative Philology.

The instruction in this department is under the direction of Dr. Hermann Collitz, Professor of Comparative Philology and German.

GRADUATE COURSES.

Dr Collitz offers in 1901-02 and in 1902-03 the following graduate courses:

Lectures on Comparative Philology, and Philological Seminary.

Two hours a week throughout the year.

Students entering this course are expected to be familiar with German and French. A short preliminary course in Sanskrit is also of great aid to the student. The lectures on comparative philology treat of the connection of the Greek and Latin languages with the related languages of the Aryan group, first, phonetically, secondly, from the point of view of grammatical forms, and lastly, from the point of view of syntax. In the first part of the course, which covers what has been during the last few years the field of the most active research, the student is introduced to the latest theories and discoveries in Aryan phonetics, and is expected to read and criticise the articles appearing from time to time in the philological journals, and to prepare reports on these articles. The same method is pursued during the investigation of the history of forms; and in the third part of the course the student begins the study of comparative syntax by a close comparison of the use of cases and verbal forms in Sanskrit, Greek, and Latin.

Elementary Sanskrit.

Two hours a week throughout the year.

Whitney's *Grammar* and Lanman's *Reader* are used.

The courses in Comparative Philology and in Elementary Sanskrit will not, as a rule, be given in the same year.

Advanced Sanskrit.

One hour a week throughout the year.

In this course selections from the Rîg-Veda are read.

Iranian.

One hour a week throughout the year.

This course is intended mainly as an introduction to the study of the Avesta. In order to study Iranian, students must be familiar with Sanskrit.

Greek.

The instruction in this department is under the direction of Mr. Henry Nevill Sanders, Associate Professor (elect) of Greek; Dr. Wilmer Cave France, Associate in Greek Literature; Dr. George A. Barton, Associate Professor of Biblical Literature and Semitic Languages, Dr. Joseph Clark Hoppin, Associate Professor of Classical Art and Archæology, and Dr. William Sargent Burrage, Lecturer in Greek.

Exceptional facilities for the study of all departments of classical philology are offered by the large classical library owned by the College. The greater part of this library is formed by the famous collection of the late Professor Hermann Sauppe, of Göttingen, which was acquired in 1894. This has been supplemented by purchases made by the college library, so that the classical library now numbers some six thousand volumes, including complete sets of most of the important journals, and about seven thousand dissertations and monographs.

GRADUATE COURSES.

The graduate courses in Greek are varied from year to year (Attic Tragedy, Orators and Historians), in order that they may be pursued by a student for several consecutive years. Three of these courses are required of students who offer Greek as a major subject in the examination for the degree of Doctor of Philosophy; two are required when Greek is the only minor subject offered, and one when two minors are offered. The post-major courses also are open to graduate students. A large part of the work expected of graduate students consists of courses of reading pursued under the direction of the department, and reports of this reading are from time to time required of the students. The course in comparative philology conducted by Dr. Collitz is recommended to graduate students of Greek. For graduate courses in Classical Art and Archæology, which may be offered as a minor by students taking Greek as a subject for the degree of Doctor of Philosophy, see page 73. No undergraduates are admitted.

Mr. Sanders conducts the following graduate seminary:

Greek Seminary.

Three hours a week throughout the year.

In 1901-02 the seminary is conducted by Dr. Burrage the subject being Sophocles. The object of the seminary is to give the students a thorough knowledge of the plays of Sophocles and practice in text-criticism. The plays are translated and interpreted by the instructor and the students; a portion of the *Electra* is studied minutely with regard to the text; lectures on subjects connected with the course are given by the instructor, and reports are required of the students. Each student is also required to prepare two theses involving the results of independent research.

In 1902-03 Attic tragedy will be the subject of the seminary which will be conducted by Mr. Sanders. One hour a week will be devoted to the reading by members of the seminary of general and critical papers on selected passages of Æschylus, whose plays will form the special study of this seminary. One hour will be spent in the interpretation of Aristotle's *Poetics* and the application of his theories to the drama. A third hour will be occupied by the reading and criticism of papers and the recording and analysing of current classical literature, especially that bearing on ancient tragedy. Reports on journals and communications of original research will also be made at these meetings.

In 1903-04 Greek orators will be studied in the seminary. The work will consist of the reading of large portions of all the Orators and the critical interpretation of a selected part of each. Lectures will be given on legal antiquities, the syntax, and the style of the various authors, in conjunction with which Dionysius of Halicarnassus will be studied. The later rhetoricians will be treated and their criticism of antiquity investigated. Students are expected to provide themselves with the Teubner text editions of Antiphon, Andocides, Lysias, Isocrates, Isæus, Æschines, and Demosthenes. The classical library is well equipped with works on the Orators. One hour a week will be devoted to lectures on Greek syntax. Certain branches will be assigned to members of the seminary to investigate and report on.

In 1904-05 the main subject of the seminary will be the Greek Historians. Thucydides will be studied in detail and reports will be made on data of history contained in Greek Literature in general. Lectures will be given by the instructor on subjects connected with Greek historiography, such as the composition of Thucydides's history, the syntax and style of Thucydides, the history of early Attic prose, Greek historical inscriptions.

Dr. France offers in 1901-02 the following graduate course:

Aristophanes.

One hour a week throughout the year.

The aim of the course is to make the students familiar with the more important Aristophanic literature up to the present day. Portions of the text are interpreted by the class and reports on assigned topics, literary, historical, and archæological, connected with the plays are expected from all the members. All the comedies of Aristophanes are read in the course of the year; lectures are given by the instructor on the metres and syntax of Aristophanes, on the dramatic structure of the plays and on the history of Attic comedy. Part of the work consists of analyses of Latin and German dissertations on Aristophanes which are presented by members of the class.

Dr. France offers in 1902-03 the following graduate course:

Plato.

One hour a week throughout the year.

The work is mainly literary and critical. Lectures on the style, philosophy, and chronology of the dialogues are given by the instructor; a detailed interpretation of a portion of Plato, and reports on topics set for discussion are given by the class. The students are expected to read the *Theætetetus*, *Parmenides*, and *Sophist* and discuss certain problems arising from these dialogues. The aim of the course is to lay a foundation for independent work by familiarising the students with the achievements of German scholarship and the general field of Platonic literature up to the present day. Analyses of German and Latin dissertations are expected from the class. Lutoslawski's *Origin and Growth of Plato's Logic* is studied and criticised in detail.

POST-MAJOR COURSES.

Mr. Sanders offers in 1902-03 the following post-major courses, open to graduate students:

Lucian.

Two hours a week during the first semester.

Sophocles, *Ajax*.

One hour a week during the first semester.

Demosthenes, *De Corona*; Æschines.

Two hours a week during the second semester.

Sophocles, *Ædipus Colonus*.

One hour a week during the second semester.

Mr. Sanders offers in 1903-04 the following post-major courses, open to graduate students:

Æschylus, <i>Oresteia</i> .	<i>Two hours a week during the first semester.</i>
Thucydides.	<i>One hour a week during the first semester.</i>
Pindar.	<i>Two hours a week during the second semester.</i>
Æschylus, <i>Seven against Thebes</i> .	<i>One hour a week during the second semester.</i>

Mr. Sanders offers in 1904-05 the following post-major courses, open to graduate students:

Demosthenes, <i>Private Orations</i> .	<i>Two hours a week during the first semester.</i>
Sophocles, <i>Antigone</i> .	<i>One hour a week during the first semester.</i>
Æschylus, <i>Agamemnon</i> .	<i>Two hours a week during the second semester.</i>
Aristotle, <i>Poetics</i> .	<i>One hour a week during the second semester.</i>

Dr. France offers in 1901-02 the following post-major courses, open to graduate students:

Æschylus, <i>Agamemnon</i> .	<i>Two hours a week during the first semester.</i>
Theocritus.	<i>Two hours a week during the second semester.</i>

Dr. France offers in 1902-03 the following post-major courses, open to graduate students:

Plato, <i>Republic</i> .	<i>Two hours a week during the first semester.</i>
Lyric Poetry.	<i>Two hours a week during the second semester.</i>

Dr. France offers in 1903-04 the following post-major courses, open to graduate students:

Aristophanes, <i>Acharnians</i> , <i>Clouds</i> , <i>Wasps</i> .	<i>Two hours a week during the first semester.</i>
Theocritus.	<i>Two hours a week during the second semester.</i>

Dr. France offers in 1904-05 the following post-major courses, open to graduate students:

Plato, <i>Republic</i> .	<i>Two hours a week during the first semester.</i>
Plato, <i>Phædrus</i> and <i>Gorgias</i> .	<i>Two hours a week during the second semester.</i>

Dr. Burrage offers in 1901-02 the following post-major courses, open to graduate students:

Demosthenes, <i>De Corona</i> .	<i>Two hours a week during the first semester.</i>
Æschylus, <i>Seven against Thebes</i> .	<i>One hour a week during the first semester.</i>
Pindar.	<i>Two hours a week during the second semester.</i>
Sophocles, <i>Antigone</i> .	<i>One hour a week during the second semester.</i>

FREE ELECTIVE COURSES.

Free elective courses, amounting to eight hours a week, are offered in Classical Art and Archæology ; see pages 73 to 75.

Dr. Barton offers in 1903-04 the following free elective course.

New Testament Greek.

Two hours a week throughout the year.

See page 64.

Latin.

The instruction in this department is under the direction of Dr. Arthur Leslie Wheeler, Associate Professor of Latin, and Dr. Homer James Edmiston, Associate in Latin.

GRADUATE COURSES.

The graduate work in Latin is conducted according to the seminary method, its object being not only to broaden the student's knowledge, but also to teach methods of work and the handling of materials. The courses cover four hours a week. Three hours each year are devoted to the study of one department of Latin literature or one Latin author. The subject selected varies from year to year (Latin Lyric Poetry, Comedy, Satire, etc.), so as to enable candidates for the degree of Doctor of Philosophy to pursue graduate work for several successive years. It is desirable that all students who intend to do advanced work in Latin should have some knowledge of Greek.

The fourth hour is devoted to a series of lectures on Latin Grammar and Syntax, so that in successive years are discussed: (1) the forms, (2) the syntax of the noun and the verb, (3) the syntax of the subordinate sentence. No undergraduates are admitted.

Dr. Wheeler offers the following graduate seminary:

Latin Seminary.

Three hours a week throughout the year.

In 1901-02 and in 1902-03 the subject of the seminary is Latin Comedy. All the plays of Plautus and Terence are read by the students ; single plays form the basis of special work on the language, text, metres, etc. Selected passages are interpreted by the instructor and students, and in the course of this work the students are encouraged to familiarise themselves with the best editions and with the periodical literature bearing on the subject. The college library is well provided with dissertations and programs, a large number being placed in the seminary room for the use of the students. Each student is expected to present a paper at least once during the year on some subject connected with the seminary.

Students should provide themselves with the smaller text edition of Plautus, edited by Goetz and Schoell, Leipsic, Teubner, 1893-96, and with Dziatzko's text of Terence, Leipsic, Tauchnitz, 1884. The plays of Plautus, annotated by Brix (Leipsic, Teubner, 1883-91), and by Lorenz (Berlin, Weidmann, 1876-86), and for Terence those by Dziatzko, 1881 and 1898 (Teubner), and by Spengel, 1879 and 1888 (Weidmann), are also recommended.

In 1903-04 Latin Satire will be studied in the seminary. The subject is treated historically and students are required to read all the Roman satirists from Ennius to Juvenal. Special attention is paid to Lucilius (fragments), Horace, and Juvenal.

In 1904-05 Lyric Poetry of the Republic will be studied in the seminary. The poems of Catullus are studied in detail. The instructor and students interpret in turn selected passages and discuss the various problems connected with the subject. In the course of this work students are encouraged to make themselves familiar with all the best editions, dissertations, periodical literature, etc., bearing on the subject.

Dr. Edmiston offers the following graduate course:

Latin Grammar and Syntax.

One hour a week throughout the year.

In 1901-02 and 1902-03 the special subject is historical Latin grammar. Lectures are given on Latin sounds and inflections, and a consideration of the comparative grammar of the Greek and Latin languages is included. Topics are assigned to members of the class for special investigation.

In 1903-04 the comparative syntax of the Greek and Latin languages will be studied. The lectures deal with certain selected topics in the comparative syntax of the noun and verb. They are chiefly concerned with the Greek and Latin languages, but reference is occasionally made to other Indo-European dialects, such as Sanskrit and Gothic, in order to illustrate the historical side of the subject as fully as possible.

In 1904-05 the syntax of the subordinate sentence will be discussed.

POST-MAJOR COURSES.

Dr. Wheeler offers in 1901-02 and in 1903-04 the following post-major course, open to graduate students:

Latin Satire, its Origin and Development.

Two hours a week throughout the year.

The subject is treated historically in order to give an outline of the origin and development of Satire. The class reads selections from Horace, Persius, Seneca, Petronius, and Juvenal, together with some of the fragments of Ennius, Lucilius, and Varro. The readings are supplemented by occasional lectures. Each student is required to prepare one paper on an assigned topic in each semester.

Dr. Wheeler offers in 1902-03, the following post-major courses, open to graduate students :

Terence, *three plays*.

Two hours a week during the first semester.

In addition to practice in reading a careful study of the language and verse of Terence is made. In the lectures and required reading many subjects connected with Latin Comedy are treated, such as the origin of the drama among the Romans, the relation of the plays to Greek originals, the theatre, stage, actors, etc. Each student is required to present a paper on an assigned topic.

Plautus, *five plays*.

Two hours a week during the second semester.

As in the course on Terence a study of the language and verse of the author is made. Each student is required to present a paper on an assigned topic.

Dr. Edmiston offers in 1901-02 the following post-major courses, open to graduate students :

Roman Epic, Ennius, Virgil, Lucan. *Three hours a week during the first semester.*

This course consists chiefly of studies in the history of Roman Epic, and in the last six books of the *Æneid*.

Lucretius, *Books i and ii*; Virgil, *Georgics*.

Two hours a week during the first semester.

Advanced Latin Prose Composition.

Two hours a week throughout the year.

Pliny, *Letters*; Martial.

Three hours a week during the second semester.

Special attention is paid to a study of the political and social condition of one of the two periods embraced in the course.

Catullus; Horace, *Epistles*.

Two hours a week during the second semester.

Dr. Edmiston offers in 1902-03 the following post-major courses, open to graduate students :

Roman Philosophical Writers.

Three hours a week throughout the year.

The authors read in the first semester are Lucretius, *Books i and iii*, with selections from the remaining books, and Cicero, *De Finibus Bonorum et Malorum*. Inasmuch as Roman Philosophy was borrowed from the Greeks special emphasis is laid upon these authors as sources of information concerning Greek philosophy.

The authors read in the second semester are Cicero, *Academica*, and *De Natura Deorum* with selections from the *Tusculane Disputations*, and Seneca, selections from the *Dialogi*, the *Naturales Questiones*, and the *Epistulae Morales ad Lucilium*. In connection with Seneca a study is made of Roman stoicism down to the time of Marcus Aurelius and students are expected to familiarise themselves with the chapters of Lecky's *History of European Morals* that bear upon the topic. The lectures deal with the ancient philosophical schools, tracing their influence upon modern systems of thought.

Cicero, *Forensic Orations*.

Two hours a week during the first semester.

Four of the greater Ciceronian orations, the *Pro Roscio Amerino*, the *Pro Murena*, the *Pro Sestio*, and the *Pro Caelio*, are read in this course. Special attention is paid to the structure of Cicero's orations, and the development of his rhetorical style; the history and social conditions of the later Roman republic, Roman law and legal procedure are discussed as these subjects come up in connection with the speeches read. Reports are presented occasionally by members of the class.

Ancient Literary Criticism.

Two hours a week during the second semester.

Preliminary lectures are given on Aristotle, *Poetics* and Longinus, *On the Sublime*, which the members of the class read in translations. During the remainder of the course the class reads the second book of Horace's *Epistles*, including the *Ars Poetica*, and the tenth book of *Quintilian*. The influence of ancient criticism on the pagan renaissance and on modern criticism is considered at length and members of the class are expected to read and report on such modern works as Vida's *De Arte Poetica*, Boileau's *L'Art Poétique*, Corneille's *Discours du Poëme Dramatique*, Sidney's *Defence of Poesy*, and Dryden's *Essays on Dramatic Poetry*.

Advanced Latin Prose Composition.

Two hours a week throughout the year.

This course is a study of the style and idiom of classical Ciceronian prose. Students taking the course are expected to have a good working knowledge of Syntax.

FREE ELECTIVE COURSE.

Dr. Wheeler offers in each year the following free elective course:

Lectures on Roman Life.

One hour a week throughout the year.

Reading from the different English text books on Roman Life is assigned each week in connection with the lectures.

MODERN LANGUAGES.

Professors and instructors: Dr. M. Carey Thomas, Dr. Mary Gwinn, Dr. Hermann Collitz, Dr. Louis Emil Menger, Dr. Fonger DeHaan, Dr. Albert Haas, Dr. Albert Schinz, M. Lucien Foulet, Dr. James Waddell Tupper, Mr. Chauncey B. Tinker (elect), Miss Rose Chamberlin, Miss Helen Whitall Thomas, Miss Lucy Martin Donnelly, Miss Helen Strong Hoyt, Miss Edith Pettit, Dr. Nellie Neilson, Miss Katharine Elizabeth Fullerton, Miss Pauline Wight Brigham, and Mr. Gordon Hall Gerould.

English.

The instruction in this department is under the direction of Dr. M. Carey Thomas, Professor of English, Dr. Mary Gwinn, Professor of English, Dr. James Waddell Tupper, Associate in English Literature, Mr. Chauncey B. Tinker, Associate (elect) in English, Miss Helen Whitall Thomas, Miss Lucy Martin Donnelly, Miss Helen Strong Hoyt, Miss Edith Pettit, Dr. Nellie Neilson, Miss Katharine Elizabeth Fullerton, Miss Pauline Wight Brigham, Readers in English, and Mr. Gordon Hall Gerould, Reader in English Philology. The instruction offered covers forty-two hours of lectures and recitations a week, and includes two years of lectures on literature and language required of every candidate for the Bachelor's degree; two years of minor and major English, which presuppose as much information as is contained in the required course, and may be elected in combination with the major course in any other language, or as a free elective; two one hour courses of free elective work; ten hours a week of essay work; and graduate courses in English literature, Anglo-Saxon, and Early and Middle English.

GRADUATE COURSES.

There are offered each year distinct graduate courses in English literature and in English language, and these courses are varied so as to enable candidates for the degree of Doctor of Philosophy to pursue graduate work for several successive years. The graduate courses in literature presuppose at least as much knowledge as is obtained in the two years' course of undergraduate lectures on English literature and in one of the literature years of the English major; and the graduate courses in Anglo-Saxon presuppose as much knowledge of Anglo-Saxon as is obtained in the language year in the English major. No undergraduates are admitted.

Students that choose English as their chief subject in their examination for the degree of Doctor of Philosophy must have, if they specialise in literature, at least as much knowledge of Anglo-Saxon, and if they specialise in language, at least as much knowledge of literature, as is obtained in the courses required of those students who make English one of the chief subjects of undergraduate study, and must have taken at least the equivalent of the essay work in the required English course.

The graduate instruction in English literature includes the direction of private reading and the assignment of topics for investigation.

Dr. Gwinn offers in 1901-02 the following graduate course :

Eighteenth Century Prose Writers.

Five hours a week throughout the year.

The authors studied may be varied from year to year. Those chosen for discussion are usually Swift, Steele, Addison, and Bolingbroke. The class meets two or three times a week, the time required for reading in connection with the lectures makes the work equivalent to that of a five hour course.

Dr. Gwinn offers in 1902-03 the following graduate course :

English Dramatists.

Four hours a week throughout the year.

The authors treated are Heywood, Shakespeare, and Fletcher. The study of Heywood forms the prelude and that of Fletcher the epilogue to the study of Shakespeare; the course is so arranged as to supply a foundation and a scheme for the wider study of the Elizabethan and Jacobean dramatists. The class meets two or three times a week for discussion; the amount of reading and investigation required makes the work equivalent to that of a four hour course.

Dr. Gwinn offers in 1903-04 the following graduate course :

Seventeenth Century Prose Writers.

Four hours a week throughout the year.

The authors studied may be varied from year to year. Those chosen for discussion are usually Bacon, Hooker, and Milton. The time required for reading in connection with the lectures makes this course the equivalent of four hours a week.

Mr. Tinker offers in each year the following graduate course :

Elementary Anglo-Saxon.

Three hours a week throughout the year.

This course is intended for students who have no knowledge of Anglo-Saxon and begins with a thorough study of Cook's *First Book in Old English*. Reading is begun at the earliest possible moment, and one of the prose texts is read rapidly and is followed by the reading of selections from *Beowulf* and, if time allows, from other poems.

Mr. Gerould offers in each year the following graduate course :

English Historical Grammar.

One hour a week throughout the year.

In this course the development of the English Language is traced from the earliest times. After an outline has been given of the history and external relations of English, the change and decay of inflections, the use of prepositions and the more important points in historical syntax are discussed. The course presupposes a knowledge of Anglo-Saxon and Middle English.

Mr. Tinker offers the following graduate seminary :

Anglo-Saxon and Early English Seminary.

Three hours a week throughout the year.

The subject of the seminary in 1902-03 is *Beowulf*. A careful study is made of textual and manuscript criticism, disputed readings, dates, historical and mythological elements, the problems of authorship and interpolation and the work of the various commentators.

In 1903-04 Chaucer will be studied. The course begins with exhaustive reviews of the work of the various commentators, followed by lectures and reports on such topics as manuscript filiation, establishment of the text, sources, dates, comparative study, Chaucer's place in English literature, etc.

In 1904-05 the subject of the seminary will be Old English Poetry. Two or three of the greater poems will be carefully studied, with special attention to sources, dates, authorship, disputed readings, and manuscript interpretation. Special topics will be investigated by the class and papers prepared and criticised. The lectures will give a brief survey of the entire field of Old English poetry.

Mr. Gerould offers the following graduate seminary :

Seminary in Middle English.

Three hours a week throughout the year.

In 1902-03 the subject of the seminary is Middle English Grammar and Literature. Students taking the course are expected to have as much knowledge of Old English as is obtained in the language year of the English group. Representative examples of ecclesiastical, courtly, and popular mediæval literature are read with the class. Attention is paid to historical development and dialects. Special topics in the recent criticism of Middle English literature are assigned to the students for report.

In 1903-04 the beginnings of English Drama will be the subject of the seminary. The English Mystery plays are studied in the four cycles and in the extant separate plays with the Towneley group as the basis of comparison. The development of the dramatic elements of the liturgy is followed through the liturgical drama and thence through the mystery plays. The moralities and the secular drama are studied historically up to the time of Heywood. In addition to the reading and discussion of selected plays lectures are given by the instructor with the view of setting various elements of dramatic development in proper proportion. Critical reports on assigned topics are required from the students.

In 1904-05 Middle English Romances will be studied. After an introductory study of the development of Romance literature in France, the romances of Germanic origin, the Arthurian and the Classical cycles, as represented in Middle English, are taken up in the order named. By means of lectures and reports the different groups are studied in relation to their general European development. Careful investigations of various elements in individual romances are undertaken from time to time by the students.

The following advanced undergraduate courses may be attended by graduate students :

Dr. Gwinn offers in 1901-02 and again in 1903-04 the following course :

English Critics of Life ; Burke, Carlyle, and Ruskin.

Three hours a week throughout the year.

Short papers are prepared from time to time by each of the students in this course. The authors are considered with special reference to Classicism and Romanticism, and to the ideas of the French Revolution.

Dr. Gwinn offers in 1902-03 the following course :

English Critics of the Nineteenth Century.

Three hours a week throughout the year.

The authors studied may be varied from year to year. The critics usually chosen are Matthew Arnold, Mr. Swinburne, and Walter Pater. Short papers must be prepared by the students attending the course.

Mr. Tinker offers in each year the following course :

English Poetry from 1780 to 1832.

Two hours a week throughout the year.

This course consists of a detailed study of the poetry of Cowper, Burns, Wordsworth, Coleridge, Byron, Scott, Shelley and Keats; special attention is paid to the rise and development of the Romantic movement in English poetry, with occasional reference to similar movements in France and Germany. The course is open only to those students who have taken the course in the critical reading of Shakespeare.

Mr. Gerould offers in each year the following course :

Critical Reading of Shakespeare.

Two hours a week throughout the year.

This course consists of the critical reading of selected plays with special reference to Elizabethan grammar and vocabulary.

Miss H. W. Thomas offers in each year the following free elective course in advanced essay writing :

Descriptive Writing.

Two hours a week throughout the year.

The purpose of this course is to teach students to observe and describe their emotions and impressions. Lectures on the style and methods of description of certain modern English and French writers are given, and selected passages from their writings are suggested as models. A special study is made of vocabulary, and of the structure and rhythm of sentences. Two papers must be written each week by students. The course is open to graduate students, to undergraduate students that have completed the two years of required essay work and have obtained the grade of merit on two hours or the grade of credit on one hour of the work, and to students that have taken the major course in English literature.

Mr. Gerould offers in 1901-02 and again in 1903-04 the following free elective courses :

Chaucer.

One hour a week throughout the year.

The course begins with an outline of Chaucerian grammar as given in Liddell's Chaucer. In addition to the *Prologue* and several of the *Canterbury Tales* certain minor works are read critically with the class. Lectures on Chaucer's life, his linguistic and poetical development, and the sources of his works accompany the reading. Short reports may occasionally be required.

Essay work in connection with the course in Chaucer.

One hour a week throughout the year.

This course may be elected by students taking the course in Chaucer and consists of the preparation of papers dealing with the subjects discussed in the lectures.

Miss Donnelly offers in 1902-03 the following free elective course in advanced essay writing :

Advanced Descriptive Writing.

Two hours a week throughout the year.

This course is a sequel to the first course in Descriptive Writing. The style of certain English prose masters is studied and imitated. In the second semester the students are encouraged to pursue individual lines of work under the direction of the instructor. The course is open to graduate students who have satisfied the instructor that they are qualified to take the course, and to undergraduate students that have received at least the grade of merit in each semester of the course in Descriptive Writing.

Mr. Gerould offers in 1902-03 the following free elective courses:

Restoration Drama.

One hour a week throughout the year.

This course is a study of French influence on Restoration literature, particularly on tragedy. The works of representative dramatists like Dryden, Otway, and Lee are read critically. The lectures deal with the relation of Restoration Drama to Elizabethan and to French tragedy of the seventeenth century.

Essay work in connection with the course in Restoration Drama.

One hour a week throughout the year.

This course may be elected by students taking the course in Restoration Drama and consists of essay work on related topics. It is recommended, though not required, that students take both courses.

Mr. Tinker offers in 1902-03 and in each succeeding year the following free elective courses:

Browning.

One hour a week throughout the year.

This course consists of a rapid reading of a large portion of Browning's poetical works, together with a minute study of the more important poems. Browning's attitude towards life and towards his art are discussed. No student who has not completed the two years of the required course in English or its equivalent, is admitted to the course.

Essay work in connection with the course in Browning.

One hour a week throughout the year.

This course may be elected by students taking the course in Browning, and consists of the preparation of interpretative and critical papers.

Miss Donnelly offers in 1903-04 the following free elective course in advanced essay writing:

Argumentative Writing.

Two hours a week throughout the year.

The topics are chosen from the subjects of the minor course in English literature on English Critics of Life; Burke, Carlisle, and Ruskin. The course is open to students who have taken, or who are taking the course in English Critics of Life.

Mr. Tinker offers in 1903-04 the following free elective courses:

English Literature from 1880 to the Present Day.

One hour a week throughout the year.

A study of certain authors, groups and literary movements in England and America during the closing years of the nineteenth century, with some reference to foreign influences, the late Victorian poets, the new Celtic poetry, symbolism, the poetic drama, etc.

Essay work in connection with the course in English Literature from 1880 to the present day.

One hour a week throughout the year.

This course may be elected by students taking the course in English literature from 1880 to the present day, and consists of the preparation of papers on subjects discussed in the lectures.

German.

The instruction in this department is under the direction of Dr. Hermann Collitz, Professor of Comparative Philology and German, Dr. Albert Haas, Associate in German Literature, and Miss Rose Chamberlin, Reader in German.

GRADUATE COURSES.

The graduate courses offered in German philology may be found under the head of General Teutonic Philology.

Graduate work in the history of modern German literature is conducted by Dr. Haas according to the seminary method. The courses are so varied that they may be followed by graduate students throughout three successive years and cover the work required of students who offer German literature as a minor for the degree of Doctor of Philosophy.

Dr. Haas conducts the following graduate seminary:

Seminary in German Literature.

Two hours a week throughout the year.

In 1901-02 Goethe's *Faust*, Part I. and Part II. (the Helena portions), is the subject of the seminary. The development of the original Faust legend, the puppet play, and the Faust drama or novel is studied, and an attempt is made to become familiar with the most important Faust criticism.

In 1902-03 the subject of the seminary will be the *Bürgerliche Drama* of Lessing, its origin in English and French literature, and its development in Modern German literature. The students will be required, as far as possible, to become familiar with the critical literature of the subject. Special attention will be paid to the study of dramatic style and technique.

In 1903-04 Schiller during the *Sturm und Drang* movement and the period of Goethe's and Schiller's collaboration is the subject of the seminary.

Although the seminary meets only two hours a week throughout the year, the amount of reading required makes the course equivalent to five hours a week. It is hoped that the students will become familiar with the methods of scientific criticism and investigation.

Dr. Haas offers in each year the following graduate courses :

The Principles of Scientific Criticism of Literature.

One hour a week during the first semester.

This course consists of a general introduction to the study of scientific criticism of literature. Although illustrations are taken from German literary criticism, the course is designed for the student of modern literature. The theories of important modern critics are thoroughly discussed and papers are written by the students. The principles of criticism laid down by the Schlegels, Taine, Hennequin, M. Brunetière, M. Faguet, and leading English critics are considered. Finally, as an illustration of German Goethe criticism, one act of Goethe's *Faust* and the various literary interpretations it has given rise to are discussed. The course is open to those students only who have a reading knowledge of French and German.

Masterpieces of nineteenth century drama (Kleist and Hebbel).

One hour a week during the second semester.

The history and origin of the chief dramas of the two greatest dramatists of the post-classical period are investigated and the critical literature on this subject is reviewed and discussed. A brief review of the principles of German Romanticism is given.

POST-MAJOR COURSES.

Dr. Haas offers in 1901-02 and in 1903-04 the following post-major courses, open to graduate students :

German Drama of the Nineteenth Century.

Two hours a week during the first semester.

The course begins with a brief review of the drama during the *Sturm und Drang* period and during the classical period; Goethe and Schiller are studied as examples. The Romantic drama, represented by Tieck, Brentano, v. Arnim, Werner, and Heinrich von Kleist is next discussed. After a short account of the *Schicksals tragödie* and a careful study of Grillparzer's work, the development of the realistic drama of the *Kraftgenies* is traced; plays by Kleist, Grillparzer, Otto Ludwig, and Hebbel are read. The course closes with the final decline of the *Epigonen drama* in Wildenbruch, leading to the revival of dramatic literature in the modern realistic movement.

German Lyric Poetry and the Novel during the Nineteenth Century.

Two hours a week during the second semester.

After a short study of Goethe's novels those of the romantic school, especially the works of Tieck, v. Hardenberg (Novalis), v. Eichendorff, and v. Arnim, are discussed. The political novel of the *jung deutsche Schule* is briefly touched upon and the realistic novel is carefully studied; Gutzkow and Otto Ludwig are taken as examples of both. The historical novel and its final decline in the archeological novel are studied in Scheffel's *Ekkehard*.

The lectures on German lyrics begin with an exposition of the folklore movement of Herder, Bürger, and Goethe, and the philosophical lyrics of Schiller, followed by a study of the lyrical poetry of the romantic school, Hölderlin, Tieck, Brentano, and v. Eichendorff. The Swabian and Austrian schools are next studied in Uhland and Lenau. Heine's Lyrics are taken as an example of transition from the romantic lyrics to the lyrics of the German revolution. Freiligrath, Herwegh, and Geibel are the principal poets of this epoch treated. Finally the revival and decline of romantic lyrics in Scheffel and Baumbach are discussed.

Dr. Haas offers in 1902-03 the following post-major courses open to graduate students:

German Literature after the Franco-German War.

Two hours a week during the first semester.

The subject of this course is, in the first semester, the *Epigonen-Litteratur*. The development of the modern German *Novelle* is discussed and Keller's, Storm's, and C. F. Meyer's works are specially studied. A full account of the poets of the *Münchener Schule* is given, Geibel, Heyse, and Schack being its most prominent members.

German Literature after the Franco-German War (*continued*).

Two hours a week during the second semester.

In the second semester the origins of the naturalistic movement are studied in Anzen-gruber and Ibsen. Nietzsche's philosophy and its influence are treated and the revival of German literature, as manifested in the writings of Hauptmann, Sudermann, and Fontane, is discussed. The course closes with a review of the neo-romantic movement and its chief representative, Stefan George.

Dr. Haas offers in each year the following post-major course, open to graduate students:

Advanced Critical Reading.

One hour a week throughout the year.

The reading is selected from works discussed in the post-major lectures on literature. The students give reports on dramas or novels, the object of the discussion being to trace the characteristics of the author, as shown in his works.

Miss Chamberlin offers in each year the following post-major course, open to graduate students:

German Syntax, Advanced Reading, and Composition.

Two hours a week throughout the year.

Attention is given in this course to the needs of students wishing to make teaching their profession. Each student is required to lecture to the class at least once during the year.

GENERAL TEUTONIC PHILOLOGY.

The instruction in this department is under the direction of Dr. Hermann Collitz, Professor of Comparative Philology and German.

Special attention is called to the facilities for the study of comparative Teutonic philology offered by Bryn Mawr College. The English and the German departments together have provided for a complete course in Teutonic philology, comprising both the study of the individual languages (Gothic, Norse, Anglo-Saxon, Old Saxon, Old High German, Middle High German, Platt-Deutsch, etc.) and the study of general comparative philology.

The courses in introduction to the study of Teutonic philology: Gothic and Middle High German grammar (first year course), are designed for students in their first year of graduate study in Teutonic languages, and the remaining courses for students in their second or third year.

Students intending to elect Teutonic philology are advised to study Greek for at least one year during their undergraduate course.

GRADUATE COURSES.

Dr. Collitz offers the following graduate courses :

Introduction to the Study of Teutonic Philology.

One hour a week throughout the year.

These lectures deal with the following topics : a discussion of Teutonic in its relation to the cognate Aryan languages ; a brief sketch of the single Teutonic languages, accompanied by an account of the chief grammatical and lexicographic works on each ; a discussion of the aim and method of historical and comparative grammar, including problems such as those of the relationship of dialects and the consistency of phonetic laws ; a brief history of Teutonic philology, and finally the outlines of general phonetics.

Gothic.

Two hours a week throughout the year.

Gothic phonetics and inflection are studied in connection with the elements of comparative Aryan grammar. Wright's *Primer of the Gothic Language* (2nd ed., Oxford, 1899) ; or Braune's *Gotische Grammatik* (5th ed., Halle, 1900) are used as text books.

As a thorough knowledge of Gothic is the foundation of the study of historical and comparative Teutonic grammar, every graduate student of Teutonic grammar is advised to take this course as early as possible.

Old High German.

Two hours a week throughout the year.

This course is offered to students acquainted with Gothic and Middle High German, or at least modern German, and includes a practical study of Old High German grammar, and a comparison of the Old High German sounds and forms with those of Middle and Modern High German. Selections are read from Old High German texts, arranged so as to proceed from easy to more difficult pieces, and to illustrate the differences between the Old High German dialects.

Middle High German Grammar and reading of Middle High German Texts (first year course).

Two hours a week throughout the year.

This course includes a brief abstract of Middle High German grammar, with special reference to the difference between Middle High German and Modern German, and a study of the most prominent authors in Middle High German. Part of Hartmann's *Armer Heinrich* is read, and is followed by selections from the *Nibelungenlied*, a brief account being given of the "Nibelungenfrage" and of the manuscripts of the *Nibelungenlied*.

Students of Middle High German should be provided with Wright's *Middle High German Primer* (Oxford, 1888); and with Paul's *Mittelhochd. Grammatik* (5th ed., Halle, 1900), or Michels's *Mittelhochd. Elementarbuch* (Heidelberg, 1900).

This course is required of all students that make German the minor subject in their examination for the degree of Doctor of Philosophy.

The private reading includes the works of the authors treated in the course.

Middle High German (second year course).

One hour a week throughout the year.

This course is intended for students that have followed the first year's course in Middle High German. The first semester is devoted to the *Höfisches Epos* (Veldeke, Wolfram, Gottfried von Strassburg, Rudolf von Ems, Conrad von Würzburg), and the second semester to Minnesangs Frühling and Walther von der Vogelweide.

Old Saxon.

Two hours a week during the second semester.

This course may, by request, be substituted for the course in Old Norse.

The work presupposes on the part of the students a sufficient knowledge of Gothic, Anglo-Saxon, and Old High German. Holthausen's *Altsächsische Elementarbuch* (Heidelberg, 1899); the *Heliand* (in Sievers's or Heyne's or Behaghel's edition), and Zangemeister-Braune's *Bruchstücke der altsächsischen Bibeldichtung* (Heidelberg, 1894), are used.

Old Norse.

Two hours a week during the second semester.

Students entering this course are supposed to be acquainted with Gothic and with Anglo-Saxon or Old High German grammar. In the grammatical part of the course attention is paid to the relation between Gothic and Norse, and to the differences between the East Teutonic and West Teutonic branches. Among the texts read, selections from the younger and the older *Eddas* take a prominent place. The critical reading of songs from the elder *Edda* is supplemented by a discussion of the different views on the structure of the Old Germanic alliterative verse.

The books used are Sweet's *Icelandic Primer* (Oxford, 1886), or Holthausen's *Altisländisches Elementarbuch* (Weimar, 1895), and Hildebrand's *Edda* (Paderborn, 1876), with Gering's *Glossar* (2nd Edition, Paderborn, 1896).

Attention is called to the facilities afforded for the study of Old Norse. A considerable portion of the library of the late philologist, Th. Wisén, of Lund, was acquired by Bryn Mawr College, and hence the library is probably as well supplied as any other college library in the United States with Old Norse texts, Norse periodicals, and works on Old Norse language and literature.

Comparative Teutonic Grammar (First Part).

One hour a week throughout the year.

The study of comparative Teutonic philology is recommended to those students only who are acquainted with the single old Teutonic languages, and have studied Gothic, Old High German, Old Saxon, Anglo-Saxon, and Norse. The object of the course is to compare the single old Teutonic languages with each other and with the related Aryan languages,—or in other words (1) to reconstruct the primitive Teutonic language; (2) to point out the characteristic features of primitive Teutonic in distinction from primitive Aryan; (3) to carry down the history of early Teutonic from the period of unity into the early stages of the individual Teutonic languages.

Teutonic Seminary.

One hour a week throughout the year.

This seminary is arranged for the benefit of the most advanced students in Teutonic philology. Its object is to encourage independent work on the part of the students. The exercises consist mainly of the discussion of special topics by the instructor and the students. The

subjects for discussion are announced in advance, and the members of the seminary are expected to study the literature on these subjects, and to make an effort to contribute some additional material, or an independent opinion of their own.

In addition to the above courses, others in Old Frisian, Dutch, Middle Low German, or Modern Low German may be arranged for students that have previously studied Gothic, Old and Middle High German, Anglo-Saxon, and Old Saxon.

ROMANCE LANGUAGES.

French.

The instruction in this department is under the direction of Dr. Louis Emil Menger, Professor of Romance Philology, M. Lucien Foulet, Associate in French Literature, and Dr. Albert Schinz, Associate in French Literature.

GRADUATE COURSES.

There are offered each year two distinct graduate courses in French, one in literature and one in language, and these courses are so varied that they may be followed by the graduate student throughout three years.

The graduate work in modern literature is directed towards a special treatment of some such subjects as the development of the early French drama; French tragedy in the eighteenth century; the Romantic drama; conditions and tendencies of modern French literature, considered together with modern French criticism. The seminary in Old French Literature is intended to be taken in connection with the course in Old French Readings, and to provide for the student attending both courses a very complete study of Old French literature and language.

Graduate students interested in the study of literature will find it to their advantage to attend the lectures on French literature two hours a week throughout the two years of the major course in French.

M. Foulet offers in each year the following graduate seminary:

Seminary in Modern French Literature. *Two hours a week throughout the year.*

The subject of the seminary in 1901-02 is Ronsard and the *Pléiade*, the object being to determine the origin, the extent and the success of the Renaissance movement in France. The chief works of Ronsard and his successors, especially Du Bellay and Baïf, are read and discussed.

The subject of the seminary in 1902-03 will be Molière; French Comedy before Molière, Molière's comedies, their Latin, Italian, and French sources, his style and method of composition, the nature of his "comique," his philosophy and his morality are discussed.

In 1903-04 Racine will be studied. Racine is considered in the first place as a prose writer in connection with the history of French prose in the seventeenth century, and secondly as a poet in connection with the development of French tragedy in the seventeenth century, and its Greek and Latin sources.

Dr. Schinz offers in 1901-02 and again in 1903-04 the following graduate course:

Victor Hugo as a lyric, epic, and philosophical poet.

One hour a week throughout the year.

Dr. Schinz offers in 1902-03 the following graduate course:

Life and Writings of J. J. Rousseau. *One hour a week throughout the year.*

Special attention is devoted to the following points: Rousseau as the father of the Romanticism of the nineteenth century; Rousseau as the first representative of cosmopolitan literature, Joseph Texte's ideas on "*Cosmopolitisme littéraire*"; the personality of Rousseau, a study of his works with special reference to the theories of his insanity.

M. Foulet offers in each year the following graduate seminary:

Seminary in Old French Literature. *Three hours a week throughout the year.*

In 1902-03 the subject of the seminary is *La 'Matière de Bretagne' et l'épopée courtoise*. The course includes a careful study of the *Lais* of Marie de France, the poems referring to Tristan, the romans of Chrétien de Troie, and selected poems on the Holy Grail; these are studied in connection with the question of their origin in Celtic countries and their later development in France. The different theories that have been proposed as to their origin and evolution are examined and discussed and an attempt is made to determine their relative value.

In 1903-04 *La Fable Esopique* and the *Roman de Renard* will be the subject of the seminary. The course will begin with an historical study of the Æsopic fables in the Middle Ages and will treat in detail the extent to which the *Roman de Renard* is based on these fables. The Isopet of Marie de France and the best 'branches' of Renard will be read.

In 1904-05 the *Chansons de Geste* will be the subject of the seminary. The French Epic will be studied from its origin in Merovingian times, from the fifth to the eighth centuries, to its development during the ninth to the eleventh centuries, and its further evolution from the eleventh to the fourteenth centuries. The chief problems connected with the study of the *Chansons de Geste*, together with the solutions offered by modern critics, will be stated and discussed.

The courses in Old French Philology, and French Physiological Phonetics are intended for students in their first year of graduate study; the Old French Seminary is designed for students in their second or third year of graduate study; the Journal Club may be attended by students in their first, second, or third year of graduate study. The course in Old French Readings is a course designed to be taken in connection with the seminary in Old French Literature.

Dr. Menger offers in each year the following graduate courses:

Old French Philology. *Two hours a week throughout the year.*

This course consists of lectures on the phonology and morphology of Old French. An attempt is made to present the laws that govern the transition of words from popular Latin into Old French; incidentally their later development into modern French is treated. An extra hour is taken occasionally for a review of the lectures and for an application of the principles announced to the words of some Old French text. The student needs for constant reference Schwan's *Grammatik des Altfranzösischen* and Suchier's *Le Français et Provençal*.

French Physiological Phonetics. *One hour a week during the first semester.*

The object of this course is two-fold: in the first place it is intended to give a view of the physiological basis of the speech changes treated of in historical phonetics (Old French Philology course); and in the second place to introduce the student to the new method of teaching French pronunciation to beginners by means of a phonetic system (as illustrated in the Manuals of Passy and Beyer, Cledat, and Grandgent). The text-books used are Passy, *Les Sons du Français*; Beyer, *Französische Phonetik*; Sweet, *Primer of Phonetics*.

Old French Readings.

Three hours a week throughout the year.

This course is so arranged that students not having time for any other course in French may gain from this some knowledge of French Historical Grammar as well as an acquaintance with a number of the masterpieces of Old French Literature. The readings for each year are connected with some definite portion of the literature and are arranged, as far as possible, in connection with the seminary in Old French Literature. In addition to the texts specified below, each student is expected to supply herself with Bartsch and Horning's *La Langue et la Littérature Françaises depuis le IX^{me} jusqu'au XIV^{me} Siècle* (Paris, Maisonneuve) and with Gaston Paris's *La Littérature Française au Moyen Âge (XI^{me}-XIV^{me} Siècle.)* (Paris, Hachette). These are used as an introduction to and in connection with the reading for each year.

The arrangement of the courses may be varied in accordance with the needs of the students in any particular year.

The readings in 1902-03 are on Anglo-Norman Literature. The course includes lectures on the history of French in England and on the leading peculiarities of Anglo-Norman French. It is specially adapted to students of English who may wish to learn some Old French. The readings begin with extracts from the Oxford and Cambridge Psalters, copies of which are in the Bryn Mawr College Library, representing the earliest stages of Anglo-Norman. Students should provide themselves with the following texts: *Le Bestiaire de Philippe de Thaün* (Ed. Walberg, Paris, 1901); *Chardry's Josaphat Set Dormanz und Petit Plet* (Ed. Koch, Heilbronn, 1879); *La Vie de Saint Gilles par Guillaume de Berneville* (Ed. Paris et Bos, Paris, 1881); *Der Anglonormannische Boere de Haumtone* (Ed. Stimming, Halle, 1899).

In 1903-04 the subject of the course will be Epic and Historical Literature. The texts required will be as follows: *Das Altfranzösische Rolandstied* (Ed. Stengel, Leipsic, 1900); *Pelerinage de Charlemagne (Karlreise)*, Ed. Koschwitz, Leipsic, 1895); *Aliscans* (Ed. Rolin, Leipsic, 1897); *Le Couronnement de Louis* (Ed. Langlois, Paris, 1888); *Eneas* (Ed. De Grave, Halle, 1891); *Extraits des Chroniqueurs Français (Villehardouin, Joinville, Froissart, Commines)*, (Ed. G. Paris, Paris, 1891).

In 1904-05 Religious and Didactic Literature, under the Eastern influence, will be studied. The texts needed will be: *Vie de Saint Alexis* (Ed. G. Paris, Paris, 1885, text alone); *Vie de Saint Thomas de Cantorbery* (Ed. Meyer, Paris, 1885); *Li Dis dou vrai Aniel* (Ed. Tobler, Leipsic, 1884), *Grant Mal Fist Adam (Reimpredigt)*, Ed. Suchier, Halle, 1879); *Aucassin et Nicolette* (Ed. Suchier, Paderborn, 1899); *Die Fabeln der Marie de France* (Ed. Warnke, Halle, 1898).

Old French Seminary.

Two hours a week throughout the year.

The work of the seminary is on the most important Old French dialects, beginning with the Anglo-Norman, continuing with the Norman, and then with the Northern and Eastern Groups. As an introduction to the course, a study is made of the question of dialect boundaries in France, and of the essential differences of speech development of Northern French as a whole, as compared with Provençal and Franco-Provençal. Texts in the various dialects are studied by the student until she is able to determine approximately the place of the original of any piece of Old French literature by the speech peculiarities found in it.

Journal Club.

Once a fortnight throughout the year.

The journal club is intended to make the advanced students familiar with all the important European periodicals and with new books dealing with Romance Philology. For each session of the club an important article chosen from some one of the various periodicals is assigned to a student for review. The student is also referred to previous articles or publications treating of the same subject as that of the review, and is expected to present to the club a chronological outline of the history and stages of the discussion on the given point. Thus the students become familiar with the names of leading Romance scholars and with the particular lines of research in which each of the latter excels. At the same time such reviews prepare the way for seminary work and original investigations.

POST-MAJOR COURSES.

M. Foulet offers in 1901-02 and again in 1903-04 the following post-major course, open to graduate students:

Origin, Development, and Decline of Realistic Comedy.

Three hours a week throughout the year.

The lectures treat of the origin of realistic comedy with Beaumarchais; its period of highest development with Augier, Dumas fils, Pailleron, and Sardou; its decline, the *comédie naturaliste*; new systems and new writers, Jules Lemaitre and Edmond Rostand.

M. Foulet offers in 1902-03 the following post-major course, open to graduate students:

The Romantic Drama of the Nineteenth Century.

Three hours a week throughout the year.

The lectures deal with the origin and development of the romantic drama in the works of Victor Hugo, Alexandre Dumas père, Alfred de Vigny, and Alfred de Musset. Its renaissance in the latter part of the century in Richépin and Edmond Rostand is then discussed.

Dr. Schinz offers in 1901-02 the following post-major course, open to graduate students:

The Great Catholic Writers of French Literature.

Two hours a week throughout the year.

The great Catholic writers, especially Bossuet, Fréron, Joseph de Maistre, Chateaubriand, Joubert, Lamennais, and Brunetière are studied.

Dr. Schinz offers in 1902-03 the following post-major course, open to graduate students:

The Origin and Evolution of the Short Story (Nouvelle) in the Nineteenth Century.

Two hours a week throughout the year.

The origin and development of the *genre nouvelle* is studied in connection with the following writers: Xavier de Maistre, Chateaubriand, de Vigny, de Musset, Nodier, Mérimée, Gautier, Laboulaye, Daudet, Bourget, Maupassant, France, Bazin, Rod, Coppée, Loti, Villiers de l'Isle Adam, de Régnier, Mallarmé, Paul Adam, Masson Forestier and others.

Dr. Schinz offers in 1903-04 the following post-major course, open to graduate students:

French Lyric Poetry of the Nineteenth Century.

Two hours a week throughout the year.

In the first semester the lectures treat lyric poetry until the year 1866. Special attention is paid to the period from 1850 to 1866, while Chénier, Lamartine, Hugo, de Vigny, and de Musset are treated only so far as is necessary for the understanding of the evolution of lyric poetry in their successors, Baudelaire, Gautier, de Banville, Leconte de Lisle, etc. The lectures of the second semester treat contemporary lyric poetry from 1866 to 1900. A careful study is made of the Parnassian and Symbolist schools.

Italian.

The instruction in this department is under the direction of Dr. Louis Emil Menger, Professor of Romance Philology.

GRADUATE COURSES.

Dr. Menger offers in 1901-02 and in 1902-03 the following graduate courses:

Italian Philology.

One hour a week throughout the year.

This course presupposes a knowledge of old French Philology and the equivalent of the minor and major courses in Italian offered at Bryn Mawr College. The work is founded upon Meyer-Lubke's *Grammatica Storico Comparata Della Lingua Italiana e dei Dialetti Toscani* (Torino, Loescher, 1901), which will be supplemented in parts, particularly in morphology, by lectures. A few pages of the *Decamerone* (any Italian edition) will be examined critically, and each word treated with regard to its phonological and morphological aspects.

Origins of Italian Poetical Literature. *One hour a week during the first semester.*

The object of this course is to treat of the development of Italian Poetry previous to and including Dante. The lectures are grouped about the following formative periods: the Latin, the Lombard (including Provençal influence, French Influence and the Vernacular), the Sicilian, the Bolognese, and, finally, the Tuscan.

Origins of Italian Prose Literature. *One hour a week during the second semester.*

The object of this course is to treat minutely all manifestations of Italian prose previous to Boccaccio. Among the subjects treated will be the following: The authenticity of the chronicles of Matteo Spinello da Giovenazza and of Ricordano; Malespini; Brunetto Latini; Bono Giamboni; Albertano da Brescia; the *Sette Savi*, *Conti di Antichi Cavalieri*, *Tavola Ritonda*, *Dodici Conti Morali*.

Old Italian Readings.

One hour a week throughout the year.

This course is intended to supplement the lectures on prose and poetry. Students should provide themselves with Monaci, *Crestomazia Italiana dei Primi Secoli* (Città di Castello, 1889 and 1897) and Gaspary, *Storia della Letteratura Italiana* (Second Edition, Torino, 1901).

Dr. Menger offers in 1901-1902 and in 1902-03 the following undergraduate courses, open to graduate students:

FIRST YEAR.

Modern Italian.

Three hours a week throughout the year.

This course is designed to prepare beginners for the study of Italian literature, as well as for the practical use of the language. Reading is taken up from the first, a careful pronunciation is insisted upon, and the essentials of the grammar are taught by a critical observation of the texts used and by graded exercises in the rendering of English into Italian. The books read are the following (taken up in the order indicated): Grandgent, *Italian Grammar and Composition*; Bowen, *Italian Reader* (Boston, Heath, 1897); De Amicis, *Cuore* (Ed. Kuhns, New York, Holt, 1896); Del Testa, *L'Ore e l'Orpello* (Ed. Thurber, Boston, Heath, 1895); Farina, *Fra le Corde d'un Contrabbasso*; Fogazzaro, *Il Mistero del poeta*; Colombi, *Il Tramonto di un Ideale*; Verga, *Vita dei Campi*.

SECOND YEAR.

Italian Classical Literature.

Three hours a week throughout the year.

The work in this course is threefold: first, a brief outline of the main periods of Italian literature with special attention to the period of the origins and Dante's position in the literature; secondly, the translation of the whole of the *Inferno* and selected parts of the *Purgatorio* and *Paradiso*, with critical attention to the historical, philological, and literary points in connection with the same; thirdly, the study and translation of parts of Pulci, *Morgante Maggiore*; Bojardo, *Orlando Innamorato*; Ariosto, *Orlando Furioso*, and Tasso, *Gerusalemme Liberata*.

Spanish.

The instruction in this department is under the direction of Dr. Fonger DeHaan, Associate Professor of Spanish.

GRADUATE COURSES.

Dr. DeHaan offers in 1901-02 and in 1902-03 the following graduate courses:

Lectures in Spanish on Spanish Literary History till the death of Calderon (1681). *One hour a week throughout the year.*

The lectures are supplemented by extensive private reading of important works.

Essays in Spanish. *Two hours a week throughout the year.*

Spanish Philology. *One hour a week throughout the year.*

Old Spanish Readings. *One hour a week throughout the year.*

POST-MAJOR COURSES.

Courses in composition and conversation are offered to those students who have completed the major course; they may also be taken by graduate students.

Dr. DeHaan offers in 1901-02 and in 1902-03 the following undergraduate courses, open to graduate students:

FIRST YEAR.

Spanish.

Four hours a week throughout the year.

The object of this course is to give beginners a good knowledge of modern Spanish, and to ground them thoroughly in the essentials of the grammar. As a preparation for understanding the spoken language, two half-hours a week during the second semester are devoted to dictation. The books studied are the following (taken up in the order indicated): Edgren's *Brief Spanish Grammar* (Boston, Heath); García del Real, *La noche toledana* (Barcelona, Tasso); DeHaan's *Cuentos Modernos*; Pérez Nieva, *Tomás el torrero* (Madrid, Colección Klong); Hartzenbusch, *Los Amantes de Teruel* (Obras, vol. III.); Zorrilla, *Granada* (Madrid, 1895, 2 vols.).

Private Reading: Palacio Valdés, *José*; Galdós, *Marianela*.

SECOND YEAR.

Lectures in Spanish on Spanish Literary History of the Nineteenth Century. *Two hours a week throughout the year.*

Spanish Composition. *One hour a week throughout the year.*

Private Reading: Private reading supplementing the lectures on literary history comprises representative works in the various branches of literature.

CELTIC AND SLAVONIC LANGUAGES.

Dr. Hermann Collitz, Professor of Comparative Philology and German, will offer courses in Celtic and Slavonic languages to

students of comparative Aryan or of comparative Teutonic philology. Such students will find it of great advantage to gain at least some knowledge of Old Irish and Old Slavonic. Courses will also be arranged for students that prefer to study Lithuanian or any of the more important living Slavonic languages (Russian, Polish, or Servian).

SEMITIC LANGUAGES AND BIBLICAL LITERATURE.

The instruction in this department is under the direction of Dr. George A. Barton,* Associate Professor of Biblical Literature and Semitic Languages.

The college was particularly fortunate in securing in the year 1892 the library of the late M. Arthur Amiaud, of Paris. While M. Amiaud was especially eminent as an Assyriologist, he was also prominent as a general Semitic student. His library was the collection of an active scholar, and forms a working library for the student in every department of Semitic study. It is especially rich in the Hebrew, Syriac, and Assyrian languages, containing several works, indispensable to the student, which are now out of print. These books, together with those already owned by the college and those easily accessible in neighboring libraries, form a good equipment for the specialist in Semitic languages or Biblical literature.

GRADUATE COURSES.

The graduate courses in Semitic languages are varied from year to year, as indicated below, so that they may be pursued by a student for four successive years. As students of Semitic languages, in addition to the work of investigation, must master the elements of a number of dialects for use in Semitic philology, those who offer Semitic languages as the major subject in the examination for the degree of Doctor of Philosophy are required to spend in Semitic work half their time for at least three years. The work of the department is so arranged that students may specialise in Hebrew or Assyrian. They must offer as subjects in the examination Hebrew, Assyrian, and Arabic, and must possess a knowledge of the grammatical forms of Aramaic and Ethiopic.

Students that offer Semitic languages as a minor subject in the examination for the degree of Doctor of Philosophy must show that they have a knowledge of three Semitic languages.

*Dr. Barton has been granted leave of absence for the year 1902-03, to accept the directorship of the American School of Oriental Studies in Palestine. The courses offered by him will be intermitted in the year 1902-03.

The regular alternation of courses is indicated below. There will be afforded each year an opportunity for graduate students to begin Hebrew, even if such a course should not be announced for the year in question.

Dr. Barton offers in 1902-03 the following graduate courses in Semitic Languages:

FIRST YEAR.

Elementary Hebrew.

Four hours a week during the first semester.

This course comprises a thorough study of the elements of the language, and the interpretation of parts of Genesis and Deuteronomy. It enables students to read ordinary Hebrew at sight.

Hebrew Literature.

Three hours a week throughout the year.

This course is devoted to a study of the Prophets, the Pentateuch and the historical books of the Old Testament.

Elementary Assyrian.

Five hours a week during the second semester.

This course includes a study of the elements of the language, the interpretation of selections from the royal annals, and exercises in writing Assyrian.

Dr. Barton offers in 1903-04 the following graduate courses in Semitic languages :

SECOND YEAR.

Hebrew, The Prophets.

Two hours a week throughout the year.

The text of one or more of the Prophets is critically interpreted, and Hebrew syntax and composition are studied.

Assyrian, Historical Texts.

Two hours a week throughout the year.

This course is devoted to the interpretation of royal annals, both Assyrian and Babylonian.

Elementary Arabic.

Two hours a week throughout the year.

This course consists of a study of the elements of the language, the interpretation of selections from Brünnow's *Chrestomathia* and from the *Thousand and One Nights*, together with Arabic prose composition.

Hebrew Literature.

Two hours a week throughout the year.

This course consists of a study of Old Testament poetry and of the apocalypses, Jewish and Christian.

Dr. Barton offers in 1904-05 the following graduate courses in Semitic languages:

THIRD YEAR.

Semitic Seminary.

Two hours a week throughout the year.

For students that specialise in Hebrew the work of the seminary consists of a critical study of one of the following subjects: the Psalter, Job, Canticles, Ecclesiastes, or one of the historical or prophetic books; for those who specialise in Assyrian a critical study is made of one of the following subjects: old Babylonian texts and the Sumerian problem, Assyrio-Babylonian epic and mythological poetry, Assyrio-Babylonian religious and magical texts, Babylonian contracts, or the El-Amarna Tablets.

Assyrian Literature.

Two hours a week during the first semester.

Assyrio-Babylonian literature, history, and art are briefly reviewed.

Arabic Literature.

Two hours a week during the second semester.

Arabic civilisation and its chief literary products are studied.

Advanced Arabic.

Two hours a week throughout the year.

In the first semester portions of the Qur'an are read and in the second semester portions of the Mu'allakât poems are interpreted, and special attention is given to syntax. The grammars of Socin and Wright are used.

Aramaic, including Syriac and Biblical Aramaic.

Two hours a week throughout the year.

The first semester is devoted to Syriac. After the forms are learned, which is an easy matter for students acquainted with Hebrew, selections are read from the Syriac versions of the New Testament, from the chronicles of Barhebräus, and from the hymns of Efrem. The second semester is devoted to Jewish Aramaic, which is the dialect of large parts of the books of Daniel and Ezra, as well as of the Targums.

Dr. Barton offers in 1901-02 the following graduate courses in Semitic languages:

FOURTH YEAR.

Semitic Seminary.

Two hours a week throughout the year.

The subject of the preceding year will be continued for the first semester and the second semester will be devoted to comparative Semitic grammar.

Ethiopic.

Two hours a week during the first semester.

The grammar and *Chrestomathia* of Dillmann are used, and in the latter part of the course selections are read from the book of Enoch.

Semitic Epigraphy (Phœnician, Aramaic, and Sabæan).

Two hours a week during the second semester.

As the grammatical forms of Phœnician differ slightly from those of Hebrew, the Phœnician part of this course is practically a course in Hebrew epigraphy, the Aramaic is practically an extension of the Aramaic course, while the Sabæan is in part a review of Arabic forms. Lidzbarski's *Nordsemitische Epigraphik* and Hommel's *Süd-arabische Chrestomathie* are the text-books used.

Semitic and Hebrew Religion.

Two hours a week throughout the year.

In the first semester the fundamental conceptions of the Semites as to gods and men, sin, sacrifice, and atonement are studied; in the second semester the religion of Israel is compared with the Semitic religion, and the preparation for Christianity is traced.

FREE ELECTIVE COURSES.

The courses in Biblical Literature are intended primarily for undergraduate students, but may be elected by graduate students also.

Dr. Barton offers in 1901-02 the following free elective courses in Biblical literature:

Old Testament Historical Books.

Two hours a week during the first semester.

A critical study is made of the Hebrew methods of writing history as illustrated in the books of Judges, Samuel, Kings, Chronicles, Ezra, and Nehemiah. The history of Israel for the period covered by these books is reviewed.

Old Testament Poetry.

Two hours a week during the second semester.

The general principles of Hebrew poetry are first examined ; then the early lyric poems scattered through the historical books of the Bible are interpreted. The book of Job, and selections from the Psalter are carefully studied and compared with other Semitic poetry. A knowledge of Hebrew is not required in this course.

Biblical Archæology.

Two hours a week during the first semester.

A study is made of the archæological discoveries in Palestine, Egypt, Assyria, and Babylon in relation to their bearing on Biblical history and criticism, and the domestic and social institutions of the ancient Hebrews are studied.

Jewish and Christian Apocalypses. *Two hours a week during the second semester.*

The course is chiefly devoted to Daniel and Revelation, but other apocalypses such as those of Enoch, Baruch, and IV. Esdras are also studied.

Historical Theology.

Two hours a week throughout the year.

This course is a continuation of that given in the previous year. In the first semester Christianity is studied as presented by its Founder and by the apostles, and in the second semester the history of Christian doctrine from 100 A. D. to the present time is briefly reviewed, and problems presented by modern thought are touched upon. In so far as is possible the original sources of information for religious conceptions are studied, and courses of reading embracing the best modern literature on the topic in hand are pursued by the students under the guidance of the instructor.

The Life of Christ.

One hour a week throughout the year.

The sources of the life of Christ are studied, each Gospel is carefully examined to see how nearly it fulfills the ideal of a chronological life of the Master, the sources of the chronology of His life and ministry are examined, the work of Tatian is carefully studied, and the material of the Gospels arranged as nearly as is possible into a chronological scheme. Constant reference is made to the best modern works on the subject, and special attention is given to the social teaching of Jesus.

The Life of Paul.

One hour a week during the second semester.

This course consists of a study of the history and personality of the Apostle Paul, and a chronological study of his epistles.

Dr. Barton offers in 1903-04 the following free elective courses in Biblical literature and Semitic Languages:

The New Testament.

Two hours a week throughout the year.

This course begins with a discussion of the historical environment of the New Testament, and includes a study of the way in which it was transmitted to us, a study of the Gospels and the life of Christ, and of the life and Epistles of Paul. The lectures are illustrated by photographs.

The History of Christian Doctrine.

Two hours a week throughout the year.

In the first semester Christianity is studied as presented by its Founder and by the apostles, and in the second semester the history of Christian doctrine from 100 A.D. to the present time is briefly reviewed, and problems presented by modern thought are touched upon. In so far as is possible the original sources of information for religious conceptions are studied, and courses of reading embracing the best modern literature on the topic in hand are pursued by the students under the guidance of the instructor.

New Testament Greek.

Two hours a week throughout the year.

This course presupposes a knowledge of classical Greek. After some introductory lectures on the formation and peculiarities of the New Testament Greek, one hour a week during the first semester is devoted to lectures on the history of the New Testament text, both in its written and in its printed form, the helps extant for emending it, and the method of using them. The remainder of the time is devoted to the interpretation of the New Testa-

ment Epistles, especially those of Paul. The students are expected to read privately during the first semester the text of one of the Gospels, and during the second, either the *Acts of the Apostles*, the *Apocalypse*, or the *Epistle to the Hebrews*.

Elementary Hebrew.

Two hours a week throughout the year.

This course consists of a study of the elements of the language, and the interpretation of parts of Genesis and Deuteronomy.

HISTORY.

The instruction in this department is under the direction of Dr. Charles McLean Andrews, Professor of History, and Mr. William Roy Smith, Reader in History.

GRADUATE COURSES.

Seven courses are offered to graduate students in history in addition to the direction of private reading and original research.

Dr. Andrews offers in each year the following graduate course:

Historical Method and Criticism.

Two hours a week throughout the year.

The lectures in this course discuss the great collections of material in Germany, France, Italy, England, and America, the methods employed in treating such material, and historical criticism from the Renaissance to the present time, including the different kinds of evidence and their treatment, critical analysis, aids to evidence, geography, archæology, etc.

Dr. Andrews offers in 1901-02 the following graduate courses:

Economic History of the American Colonies.

Two hours a week throughout the year.

This course, which was offered for the first time in the year 1898-99, presents in detail the various features of the agrarian and economic history of the British colonies in North America from the time of their settlement to the year 1760. It is conducted partly by lectures and partly by practical class exercises, and treats of England's commercial and colonial policy and its application in America; the land-system of the colonies; colonial agriculture, commerce, illegal trading, manufactures, and the like.

History of the Community in England and America.

One hour a week throughout the year.

This course is a general survey of the history of the primitive community, the manor, vill, town and parish in England and the town, parish, hundred, county and township-county in America.

Dr. Andrews offers in 1902-03 the following graduate courses:

English Feudalism.

Two hours a week throughout the year.

This course consists of the history of Anglo-Saxon, Norman, and post-Norman feudalism to the close of the reign of Edward I., with a series of introductory lectures upon the origin and character of Continental feudalism as presented in the writings of Brunner, Schröder, Fustel de Coulanges, Flach, and others.

English Local Institutions during the Feudal Period.

Two hours a week throughout the year.

This course is a detailed study of the vill, manor, borough, gild, and of the hundred and county courts in England from the eleventh to the thirteenth centuries. For this course a course in the History of the Community in England and America may be substituted.

Mr. Smith offers in 1902-03 the following graduate course:
The Middle Period of American History.

Two hours a week throughout the year.

The object of this course is to discuss in some detail the chief political and constitutional problems of the period from the compromise of 1820 to the compromise of 1850. Special attention is paid to the anti-slavery movement and to the development of sectional antagonism. The student is instructed in the use of congressional debates and reports, public statutes, supreme court decisions, and such other public documents as are available.

Mr. Smith offers in 1903-04 the following graduate course:
England during the American and French Revolutions.

Two hours a week throughout the year.

This course covers the period from the accession of George III. to the downfall of Napoleon. Emphasis is laid upon the development of British colonial policy after 1763, the American revolt, the relations with Ireland leading to the Act of Union, and finally upon the attitude of England during the Revolutionary and Napoleonic eras.

Dr. Andrews conducts in each year the following graduate seminary:

Historical Seminary.

Two hours once a fortnight throughout the year.

The seminary is attended by the instructors in the department of history and the graduate students who are pursuing advanced courses in History. At the meetings which are held once a fortnight reports are made upon assigned topics; recent articles and books are reviewed, and the results of special investigations presented.

POST-MAJOR COURSES.

Dr. Andrews offers in 1901-02 the following post-major course,
open to graduate students:

American Constitutional History.

Two hours a week throughout the year.

The only text-books used in this course are Macdonald's *Select Charters* and *Select Documents* of American and United States History. The members of the class are also systematically referred not only to the general authorities, but also to colonial charters and constitutions, the records of the colonial governments as far as they are available, the journals of Congress, and other documentary materials.

Dr. Andrews offers in 1902-03 the following post-major course,
open to graduate students:

English Constitutional History to 1485.

Two hours a week throughout the year.

The text-books used in this course are Stubbs's *Select Charters*, and Prothero's *Constitutional Documents*. The lectures alternate with the reading and interpretation of selected charters and constitutional documents. Each student is assigned from time to time topics upon which a report is made to the class.

Dr. Andrews offers in 1903-04 the following post-major course,
open to graduate students:

American Constitutional History to 1789.

Two hours a week throughout the year.

This course will cover in greater detail the same ground as the first part of the course given in 1901-02.

Mr. Smith offers in 1902-03 the following post-major course, open to graduate students:

American Constitutional History, from 1789 to the present time.

Three hours a week throughout the year.

The lectures deal with the leading aspects of American Constitutional History to the close of the period of reconstruction. The text-book used is MacDonald's *Select Documents of United States History*, but frequent additional references are given to the leading secondary authorities. To a limited extent use will be made of such documents as are available in the library, and special topics will be assigned for discussion and report.

Mr. Smith offers in 1903-04 the following post-major course, open to graduate students:

English Constitutional History, from 1485 to the present time.

Three hours a week throughout the year.

The lectures discuss the constitutional features of Tudor absolutism, the influence of the English reformation, the struggle between the crown and parliament for supremacy, the Revolution of 1688-89, the development of the cabinet system, the union with Scotland and Ireland, the American and French Revolutions, the Reform Bills of 1832, 1867, and 1884-85, and the South African question. The text-books used are Prothero's *Select Statutes and Other Constitutional Documents*, Gardiner's *Constitutional Documents of the Puritan Revolution* and Adams and Stephens's *Select Documents of English Constitutional History*. An attempt is made to familiarise the student with the investigations of such men as Gardiner, Ranke, Macaulay, Lecky, Hallam, and May. Time is allowed for discussions of documents and reports.

ECONOMICS AND POLITICS.

The instruction in this department is under the direction of Dr. Lindley Miller Keasbey, Professor of Economics and Politics; Dr. Alvin S. Johnson, Reader in Economics, and an Instructor in Politics who will be appointed later.

GRADUATE COURSES.

Dr. Keasbey offers in each year the following graduate courses:

Economic Institutions.

One hour a week throughout the year.

The lectures in this course serve as a general guide to the detailed work of investigation assigned to each student.

American Primitive Society.

One hour a week throughout the year.

A critical study is made of the economic antecedents of aboriginal American Society. The lectures are both descriptive and theoretical, and, in addition, detailed work of investigation is assigned to each student.

Commercial Geography.

One hour a week throughout the year.

The lectures outline the commercial development of the world and define existing trade relations. Reports on the commercial possibilities of different countries are required of the students.

American Commerce.

One hour a week throughout the year.

On the basis of an exact knowledge of the resources of the American continent and a general knowledge of those of other countries, the student is expected in this course to study the past, analyse the present, and form conclusions as to the probable future of American

trade and commerce. The lectures cover the entire ground, and the student is expected to do detailed work of investigation in government documents.

Dr. Johnson offers in each year the following graduate courses:

Economic Theories.

One hour a week throughout the year.

This course deals with the static theories of value and distribution.

Rent, Profit, and Monopoly Gain.

One hour a week throughout the year.

This course consists of a study of differential income.

Monopoly and Consolidation.

One hour a week throughout the year.

This course consists of a study of the rise of typical industrial consolidations. Its purpose is to ascertain the actual and potential monopoly powers of modern consolidations.

Dr. Keasbey and Dr. Johnson conduct in each year the following graduate seminary:

Economic Seminary.

Two hours once a fortnight throughout the year.

The work of the seminary is devoted to the study of economic theory and economic development. Only students who are doing independent work along these lines are admitted. At the meetings recent books and articles are reviewed and the results of special investigations presented for discussion, comment, and criticism.

POST-MAJOR COURSES.

Dr. Keasbey offers in 1901-02, 1902-03, and in 1904-05, the following post-major course, open to graduate students:

Theoretical Sociology.

Two hours a week throughout the year.

In this course the various theories of the origin and evolution of human institutions are set forth in the order of their historical expression, and an attempt is made to present an hypothesis that will account for the various phenomena of social growth. A large amount of collateral reading is assigned to each student, but no written work is required.

Dr. Keasbey offers in 1903-04, and again in 1905-06 the following post-major course, open to graduate students:

The Economic Antecedents of Civilisation.

Three hours a week throughout the year.

The lectures in this course describe the economic activities characteristic of the several stages of savagery, barbarism, and civilisation. Written reports are required upon special reference work assigned to each student.

Dr. Johnson offers in 1901-02, and again in 1903-04, the following post-major course, open to graduate students:

Economic Theory.

Three hours a week throughout the year.

A study of the theories of value and distribution in modern economic literature.

Dr. Johnson offers in 1902-03, and again in 1904-05 the following post-major course, open to graduate students:

Economic Problems.

Three hours a week throughout the year.

In the first semester money and banking and the general principles of taxation are the chief subjects of study. The second semester is devoted to an examination of the economic relations of government.

LAW.

The instruction in this department is under the direction of Dr. Clarence D. Ashley, Dean of the Faculty of Law of New York University, Non-resident Lecturer in Law; Mr. Frank H. Sommer, Professor of Law, New York University, Non-resident Lecturer in Law and Dr. Alvin Saunders Johnson, Reader in Economics.

GRADUATE COURSES.

The graduate courses in law if taken in connection with a course in Constitutional History, may be combined to form a minor for the degree of Doctor of Philosophy.

Dr. Ashley offers in each year the following graduate course:

Constitutional Law.

Two hours a week throughout the year.

The subject of this course is the United States Constitution and its development and construction by judicial decision. This involves the examination and study of the great constitutional cases, and members of the class are expected to prepare papers from time to time.

Mr. Sommer offers in each year the following graduate course:

Historical Development of Law.

One hour a week throughout the year.

This course discusses the development of the various causes of action, and deals in detail with the growth of the subjects of contract, tort, and property. Cases and their authorities are frequently assigned for reading and class-room discussion.

Dr. Johnson offers in each year the following graduate course:

Administration.

One hour a week throughout the year.

In this course the general principles of the administrative law of the United States are discussed and compared with those of the principal European countries.

The following undergraduate courses in Law may be attended by graduate students:

Dr. Ashley offers in 1901-02 the following courses:

Torts.

Two hours a week throughout the year.

In this course that class of wrongs which violate an absolute, as distinguished from a correlative, right is discussed. The nature, character, historical development, and classification of torts is considered. The course is conducted mainly by class discussion.

Elementary Jurisprudence.

One hour a week throughout the year.

This course treats of the elements of jurisprudence, including the nature, scope, and divisions of law, with the distinctions between contract, tort, and quasi-contract, the nature and classification of rights, and a brief survey of the jurisdiction of common law and equity courts.

Dr. Ashley offers in 1902-03 the following course:

Law of Contract.

Three hours a week throughout the year.

This course treats of the formation of contract as embraced in the topics of Mutual Assent and Consideration. It is conducted by class discussion of cases contained in a collection of selected and condensed cases.

A statement of each case, with a critical examination and full discussion of the principles involved, is required. The aim is to train the class in accurate legal thought, and incidentally to impart a thorough knowledge of the principles underlying the subjects covered.

For collateral reading reference is made to Langdell's *Summary of the Law of Contract* and other standard authors.

Mr. Sommer offers in 1901-02 the following course :

Personal Property.

Two hours a week throughout the year.

This course deals with the distinction between real and personal property, and the nature and acquisition of rights in personal property. Among other subjects wrecks, waifs, accession, confusion, judgments, gifts, and bailments are treated. Gray's *Cases on Property*, Vol. I., is used as a text-book.

Mr. Sommer offers in 1902-03 the following course :

Theory of Legal procedure.

Two hours a week throughout the year.

PHILOSOPHY.

The instruction in this department is under the direction of Dr. David Irons, Associate in Philosophy, and Dr. James H. Leuba, Associate in Psychology and Education.

GRADUATE COURSES.

In addition to the post-major courses, which may be elected by graduate students, nine hours of graduate lectures and seminary work are offered in each year. The laboratory of experimental psychology is open to graduate students for research work.

Dr. Irons conducts in each year the following graduate seminary :

Metaphysical Seminary.

Three hours a week throughout the year.

The subject for the year 1901-02 is the philosophy of Kant.

In 1902-03 the subject will be the problems of logic and epistemology, the works of Bradley, Bosanquet, Sigwart, and Hobhouse being used as a basis. The subject for the year 1903-04 will be Hegel's *Logic*. This sequence of courses may, however, be modified to suit the requirements of the students concerned.

Dr. Irons conducts in 1901-02 the following graduate course :

Plato and Aristotle.

Two hours a week throughout the year.

This lecture course is given as a supplement to the seminary work in the philosophy of Kant.

Dr. Irons conducts in 1902-03 the following graduate course :

History of Ethics.

Two hours a week throughout the year.

The aim of this lecture course is to present a systematic account of the development of ethical thought in ancient and modern times. Special attention is directed to English ethics of the eighteenth century. Students are expected to do prescribed reading, and time is allowed for discussions.

Dr. Irons offers in 1903-04 the following graduate course :

Recent German Philosophy.

One hour a week throughout the year.

This course is offered in 1903-04 as a supplement to the seminary work on Hegel. The lectures give an account of the development of German philosophy from the death of Hegel to the present time.

Dr. Leuba conducts in each year the following graduate seminary:

Psychological Seminary.

One hour a week throughout the year.

The graduate students meet once a week to hear reports on the literature of the subject and on the work done in the laboratory.

Dr. Leuba offers in each year the following graduate course:

Psychology.

Three hours a week throughout the year.

The work is conducted mainly according to the seminary method. One or two of the following subjects will be chosen each year: the fundamental principles and most important results of modern psychology; a comparative study of Wundt, William James, James Ward, Stout, and other psychologists; volkpsychologie; language, myths, customs; attention, apperception, the will and the psychology of ethics; psychiatry, insanity, and criminology; animal and child psychology, comparative psychology; the history of psychological theories, beginning with the Greek philosophers.

POST-MAJOR COURSES.

Dr. Irons offers in each year one of the following post-major courses open to graduate students:

Metaphysics.

Two hours a week throughout the year.

In this course certain fundamental questions in philosophy are discussed in detail, such as substance and cause, mechanism and teleology, monism and pluralism, idealism and materialism, optimism and pessimism. No text-book is used but references are given to the literature on the special topics which are under discussion. For this course the following may be substituted by request.

Greek Philosophy.

Two hours a week throughout the year.

This course is designed to serve as a preparation for seminary investigation of special problems connected with the philosophies of Plato and Aristotle. The class work consists mainly of lectures, but students are expected to do a large amount of collateral reading.

Education.

The instruction in this department is under the direction of Dr. James H. Leuba, Associate in Psychology and Education.

It is the purpose of the department to offer to students intending to become teachers an opportunity to obtain a technical preparation sufficient for their profession. Hitherto practical training has been thought necessary for teachers of primary schools only, but similar training is very desirable for teachers in high schools and colleges also. Indeed, it is already becoming increasingly difficult for college graduates without practical and theoretical pedagogical knowledge to secure good positions. In addition to the lectures and practice work open to undergraduates, courses are organised for

graduate students only, conducted with special reference to preparation for the headship and superintendence of schools. Education cannot be studied to the best advantage unless an acquaintance with at least the rudiments of psychology is presupposed. The elementary experimental course in psychology is therefore recommended to all students of education.

GRADUATE COURSES.

Graduate students are recommended to follow the work offered in the undergraduate course mentioned below.

Dr. Leuba offers in 1901-02 and in 1902-03 the following graduate courses:

The Methods and Principles of Teaching.

One hour a week throughout the year.

This course is open only to graduate students who have already taught or to those who take the practice work announced below.

The psychology of mental and bodily growth with reference to education.

One hour a week throughout the year.

A knowledge of elementary psychology is assumed in this course.

Lectures upon school-hygiene; physical training; organisation of education in the United States and in Europe; the training of teachers, etc.

Two hours a week throughout the year.

Seminary and Practical Exercises.

Two hours a week throughout the year.

The students are given an opportunity to teach and to attend the classes of competent teachers. The seminary meets weekly for the consideration of pedagogical literature and criticism of the teaching done by its members.

FREE ELECTIVE COURSE.

Dr. Leuba offers in each year the following free elective course open to graduate students:

The great educators and their systems considered with reference to modern educational methods and the problems of to-day.

Two hours a week throughout the year.

Classical Art and Archæology.

The instruction in this department is under the direction of Dr. Joseph Clark Hoppin, Associate in Classical Art and Archæology.

An archæological seminary of two hours a week throughout the year is offered to graduate students who have done elementary archæological work or who take the free elective course in Elements of Archæology as a companion course. A graduate course in

Archæology will be given if required for graduate students who have done no work in archæology. Free elective courses in the History of Greek Art and the Elements of Archæology are given each year, and it is expected that a student who has taken both courses will be qualified for more advanced archæological work. Two additional free elective courses are offered each year, one in the Mycenæan Age and Classical Topography and Geography, and one in Greek Mythology or in the Private Life of the Greeks. For an elective course in Roman Life, see page 45.

GRADUATE COURSES.

Dr. Hoppin conducts in each year the following graduate seminary:

Archæological Seminary.

Two hours a week throughout the year.

This course is open only to graduate students who have taken the course in the Elements of Archæology or have done equivalent work in the past. Ability to read easily both French and German is indispensable. Various archæological problems are thoroughly discussed, and a certain amount of individual research work is required of each student. Instruction is given mainly by conferences and talks of an informal nature. Papers are read and criticised at each meeting of the class.

Dr. Hoppin offers in each year the following graduate course:

General Archæology.

One hour a week throughout the year.

This course is designed as a general introduction to the study of classical archæology for graduate students who have had no previous training in the subject, but have already studied Greek and Latin, and are fitted to make rapid progress. Ability to read easily Greek, Latin, French, and German is essential. The scope of the course is determined by the needs of the students electing it.

FREE ELECTIVE COURSES.

Dr. Hoppin offers in each year the following free elective courses, open to graduate students:

History of Greek Art.

Three hours a week throughout the year.

In this course the origin and development of Greek art are studied, chiefly with reference to sculpture, in which Greek art finds its highest expression. The lectures of the first semester deal with the art of the archaic and transitional periods, down to the time of Pheidias; the lectures of the second semester treat the period of highest art during the fifth and fourth centuries, and the decline as far as the Roman period. Special attention is given to art of the fifth and fourth centuries. Gardner's *Handbook of Greek Sculpture* is used as a text-book. Ability to read both French and German is desirable, though not absolutely essential.

Elements of Archæology.

Two hours a week throughout the year.

This course is intended as a parallel and supplementary course to that on Greek art and serves to introduce the student to the various fields of modern archæological science which are not included in the preceding course. During the first semester the history of modern archæological progress, and the history of Greek coins is studied, with supplementary

lectures devoted to minor subjects, such as terra-cottas, gems, bronzes and the toreutic arts (gold, silver and other metals). During the second semester, the course deals exclusively with the history of Greek vases and painting. Ability to read easily both French and German is desirable, though not absolutely essential.

Dr. Hoppin offers in 1901-02 the following free elective courses, open to graduate students:

Greek and Roman Mythology, Epic Legends.

One hour a week throughout the year.

In this course the myths connected with the Greek and Roman demi-gods and the legends of the epic cycles are discussed. Special attention is paid to the Labors of Herakles, the exploits of Theseus and the Trojan and Thebaid legends.

Advanced Archæology.

One hour a week throughout the year.

A detailed study of Greek gems and vase-painting is made. Students electing this course must have already attended the course on the Elements of Archæology or its equivalent. A knowledge of Greek though desirable is not required, but ability to read French and German easily is indispensable. The course serves as a preparation for seminary work; in addition to the lectures, one topic for research work is assigned to every student in each semester. A certain amount of outside reading is required in addition to the translation of the text.

Dr. Hoppin offers in 1902-03 the following free elective courses, open to graduate students:

Private Life of the Greeks.

One hour a week throughout the year.

In this course the private life of the Greeks is discussed chiefly with reference to existing monuments, especially vase-paintings.

The Mycenæan Age.

Two hours a week during the first semester.

(Open to students who have taken the course on the History of Greek Art or the course in the Elements of Archæology, or who have done equivalent work.)

This course is designed to analyse the the elements of the Mycenæan civilisation as illustrated by the discoveries of the last twenty-five years. The history of the times is carefully studied from the ethnological, economical and topographical as well as from the archæological standpoints and the excavations which furnish us with the greater part of our information in regard to this period are described. Part of the work will be devoted to a discussion of the identity of the Homeric and Mycenæan civilisations. Ability to read easily both French and German is practically essential.

Classical Topography and Geography.

Two hours a week during the second semester.

(Open to those students who have taken the course on the History of Greek Art or the course in the Elements of Archæology, or who have done equivalent work.)

The greater part of the course is devoted to a careful study of the topography of Ancient Athens, with special reference to the Acropolis and its monuments, but the various important excavations of modern times are also described. Incidentally the history of Greek architecture is studied, chiefly with reference to the development of the temple. Ability to read easily both French and German is practically essential.

Dr. Hoppin offers in 1903-04 the following free elective course, open to graduate students:

Greek and Roman Mythology, Myths.

One hour a week throughout the year.

In the first part of the course on Mythology the myths which pertain to the religion of the Greeks and the Romans are analysed and illustrated by ancient monuments, principally vase-paintings. This part of the subject is devoted exclusively to the discussion of the various myths connected with the twelve greater gods of the classical world and their attendant divinities.

Mathematics.

The instruction in this department is under the direction of Dr. Charlotte Angas Scott, Professor of Mathematics, Mr. James Harkness, Professor of Mathematics, and Dr. Isabel Maddison, Reader in Mathematics.

GRADUATE COURSES.

The graduate courses consist of lectures and seminary work, supplemented by private reading under the direction of the instructors, the courses being arranged each year with reference to the wishes and degree of preparation of the students concerned.

Dr. Scott offers in 1901-02 the following graduate course :

General Theory of Plane Algebraic Curves.

Two hours a week throughout the year.

This course is a detailed discussion of some parts of the theory of plane algebraic curves, in which a general knowledge of the subject is presupposed. During the first semester special attention is paid to the theory of the intersections of curves, with some account of geometry on a curve so far as to include the Riemann-Roch theorem where the base-curve is endowed with simple singularities. The greater part of the second semester is devoted to the treatment of higher singularities and to topological investigations.

Dr. Scott offers in 1902-03 the following graduate course :

Plane Algebraic Curves.

Two hours a week throughout the year.

In this course algebraic curves are studied with special attention to the theory of algebraic forms. The course presupposes some general knowledge of the elements of the theory of curves but not of the special developments included in the course given in the preceding year.

Mr. Harkness offers in 1901-02 the following graduate course :

Theory of Functions.

Two hours a week throughout the year.

This course relates to those parts of the Theory of Functions that are more especially associated with Riemann's name; it includes a detailed treatment of fundamental regions associated with analytic functions and makes extensive use of Riemann Surfaces. Collateral reading is assigned in Klein's *Ikosæder* and other works.

Mr. Harkness offers in 1902-03 the following graduate course:

Elliptic Functions.

Two hours a week throughout the year.

In connection with this course in Elliptic Functions the higher transcendents are studied. The lectures make free use of the general Theory of Functions.

The Mathematical Journal Club holds regular fortnightly meetings, at which reports on special topics or memoirs are presented by the instructors and the graduate students.

POST-MAJOR COURSES.

The post-major courses in mathematics are designed to bridge over the interval between the ordinary undergraduate studies and advanced work. They deal, therefore, with the subjects of the major course, carried to higher developments and treated by higher methods. As the order of mathematical studies differs in different colleges, graduate students frequently find it advisable to devote a part of their time to these courses. Regular written work is expected from all mathematical students, and a reading knowledge of French and German is presupposed.

The post-major courses in any one year amount to five hours a week. The courses given are the following, with occasional modifications :

I. (a.) Lectures Introductory to Modern Analytical Geometry, in connection with Salmon's *Conic Sections* and Scott's *Modern Analytical Geometry*, Dr. Scott.

or, I. (b.) Lectures on Modern Pure Geometry, Dr. Scott.

or, I. (c.) Lectures on Special Topics in Geometry, such as Homogeneous Coordinates, Circular Coordinates, Families of Curves, Certain Transcendental Curves, Geometrical Transformations, etc., Dr. Scott.

II. (a.) Lectures Introductory to Modern Algebra in connection with Salmon's *Modern Higher Algebra*, and Elliott's *Algebra of Quantics*, Mr. Harkness.

or, II. (b.) Lectures preparatory to the Theory of Functions, in connection with Harkness and Morley's *Introduction to the Theory of Analytic Functions* and Chrystal's *Algebra*, Vol. II., Mr. Harkness.

or, II. (c.) Lectures on Elementary parts of Differential Equations, treated from the point of view of the Theory of Functions, Mr. Harkness.

or, II. (d.) A general course in Analysis, dealing with the higher development of subjects only touched upon in the major course, such as Determinants, Fourier's Series, Infinite Series, Definite Integrals, etc., Mr. Harkness.

III. (a.) Lectures on Analytical Geometry of Three Dimensions, Dr. Maddison.

or, III. (b.) A practical course in Differential Equations, Dr. Maddison.

or, III. (c.) Lectures on the Theory of Envelopes, Dr. Maddison.

In the year 1901-02 the following post-major courses are offered:

I. (a.) Dr. Scott.

Two hours a week throughout the year.

To a great extent the lectures follow the lines of von Staudt's *Geometrie der Lage* and *Beiträge zur Geometrie der Lage*. More recent developments dealing with the projective treatment of metric geometry are discussed.

II. (b.) A general course in Analysis, Mr. Harkness.

Two hours a week throughout the year.

The earlier part of the course is devoted to a discussion of modern work on irrational numbers and real functions of a real variable. Particular attention is paid to Fourier's Series. In the second semester the lectures are intended to serve as an introduction to the Theory of Functions.

III. (a.) Dr. Maddison.

One hour a week throughout the year.

In 1902-03 the following post-major courses are offered:

I. (c.) Dr. Scott.

Two hours a week throughout the year.

II. (c.) Mr. Harkness.

Two hours a week throughout the year.

III. (a.) Dr. Maddison.

One hour a week throughout the year.

Applied Mathematics.

The instruction in this department is under the direction of Dr. Albert P. Wills, Associate in Applied Mathematics and Physics.

The courses offered in applied mathematics are designed to meet the requirements of students of mathematics and physics. The work is so arranged as to demand from the mathematical students merely such knowledge of physical principles and ideas as will enable them to comprehend readily, from abridged explanations, the essential physical ideas implied by the symbols used and the formulæ deduced. For the students in physics the work is so planned as to help them at every step to appreciate the value of analytical methods in treating physical problems.

GRADUATE COURSES.

Students taking the graduate course in applied mathematics are required to have a knowledge of differential and integral calculus and of analytical geometry of three dimensions, and some familiarity with differential equations. The courses are varied from year to year, so that a student remaining two or three years may have the opportunity of studying different subjects in the great field of applied mathematics. For those students who desire to make applied mathematics a minor for the degree of Doctor of Philosophy sufficient extra reading under the direction of the instructor is assigned, to enable them to complete the required amount of work in one year.

Dr. Wills offered in 1900-01 the following graduate courses:

The Partial Differential Equations of Physics and Fourier's Series.

Three hours a week during the first semester.

The course begins with a careful discussion of Fourier's series and Fourier's integrals. Numerous applications of these in connection with the solution of problems in physics are given, introducing the equations of Laplace, Poisson, Legendre, and Bessel. A detailed discussion of problems in Heat, Optics, Sound, Electricity, and Magnetism in which these equations occur is given.

Spherical Harmonics and Bessel's Functions in Physical Problems.

Three hours a week during the second semester.

This course is an extension of that offered in the first semester. The solutions of the equations discussed are treated more fully from a mathematical point of view in the cases in which the solutions occur as spherical harmonics, zonal harmonics, and Bessel's Functions.

Dr. Wills offers in 1901-02 the following graduate course:

Thermodynamics.

Two hours a week throughout the year.

The first semester is devoted to the consideration of the two fundamental principles of the subject. Special attention is paid to the question of reversible and irreversible processes. The most general equations and inequalities are established and illustrated in the treatment of special problems. Considerable time is devoted to the subject of Thermodynamic Potential. Gibbs's Thermodynamic Surface is carefully studied with the aid of a model. In the second semester the theory discussed in the first semester is applied to the solution of numerous problems in Physics and Physical Chemistry. In this connection, the works of Duhem are used, and, in particular, *Le Potential Thermodynamique et ses Applications*.

POST-MAJOR COURSES.

Students taking the post-major courses in applied mathematics must be familiar with the elementary principles of physics and are required to possess a knowledge of elementary pure mathematics, including differential and integral calculus and analytical geometry of three dimensions.

Dr. Wills offered in 1900-01 the following post-major course, open to graduate students:

Dynamics and the Theory of Potential. *Three hours a week throughout the year.*

The dynamics of a particle is first treated, following Tait and Steele's text-book. Rigid dynamics is then studied in connection with Love's *Treatise on Mechanics*. In the theory of potential Professor B. O. Pierce's book is used as a text-book. The course consists of two hours of lectures and one hour of seminary work a week.

Dr. Wills offers in 1901-02 the following post-major course, open to graduate students:

Dynamics and Hydrodynamics.

Three hours a week throughout the year.

SCIENCE.

Physics, Chemistry, Geology, Biology.

Professors and instructors: Dr. Thomas Hunt Morgan, Dr. Joseph W. Warren, Dr. Arthur Stanley Mackenzie, Dr. Elmer P. Kohler, Dr. Florence Bascom, Dr. Albert P. Wills, Dr. David Wilbur Horn, Dr. William B. Huff (elect), Dr. Harriet Randolph, Miss Frances Lowater and Miss Gertrude Langden Heritage.

In January, 1893, the Trustees opened Dalton Hall, a large building, containing ample laboratories, lecture-rooms, research-rooms, special libraries, and professors' rooms for the work of

the scientific departments. The chemical, geological, biological, and physical laboratories and the laboratory for experimental psychology are open for students from nine to six daily.

The chemical department includes a lecture-room, a large laboratory for the first-year students, and several smaller ones for advanced and special work, preparation and balance rooms, and a chemical library. The supply of apparatus and chemicals has been carefully selected for the purpose of instruction and research, and is increasing from year to year. The chemical library contains, besides necessary treatises and reference books, complete sets of the most important chemical journals.

The biological laboratories are equipped with the best (Zeiss) microscopes, microtomes, etc., and are supplied with apparatus for the study of experimental physiology.

The physical laboratories are carefully furnished with the apparatus necessary for thorough work.

Graduate work in the natural sciences is highly special, and consists of laboratory work, private reading, and special investigations pursued by the student under the guidance of the instructors.

Physics.

The instruction in this department is under the direction of Dr. Arthur Stanley Mackenzie, Professor of Physics, Dr. Albert P. Wills, Associate in Applied Mathematics and Physics, Dr. William B. Huff, Associate (elect) in Physics, and Miss Frances Lowater, Demonstrator in Physics.

GRADUATE COURSES.

The graduate courses consist of lectures, laboratory work and original research work under the direction of the instructors.

Dr. Mackenzie offers in 1901-02 and again in 1903-04 the following graduate course:

Physical Optics.

Two hours a week throughout the year.

These lectures cover most of the matter treated by Basset in his work on this subject. Special attention is paid to the theories of Maxwell, and to the commentaries upon it.

Dr. Mackenzie offers in 1902-03 and again in 1904-05 the following graduate course:

Heat Conduction.

Two hours a week throughout the year.

The work of this course begins with a discussion of Fourier's memoirs on the subject; special attention is then given to Fourier's series; lastly the application of the general equations to problems in heat conduction and in cabling is treated.

Dr. Huff offers in 1902-03 the following graduate course:

Thermodynamics.

Two hours a week throughout the year.

This course deals chiefly with the newer applications of thermodynamics, especially the work of Willard Gibbs, Helmholtz, and van't Hoff. References are made to Duhem's *Le Potential Thermodynamique et ses Applications*. (Hermann, 1886, Paris).

Dr. Huff offers in 1903-04 the following graduate course:

Mathematical Theory of Electricity and Magnetism.

Two hours a week throughout the year.

This course is based on Maxwell's standard work and its later development.

Dr. Mackenzie and Dr. Huff conduct the seminary, the journal club, and the laboratory work.

Physical Seminary.

One hour a month throughout the year.

The advanced students are expected to meet with the instructors once a month to hear or read papers on assigned topics in physics.

Journal Club.

Three hours a month throughout the year.

The advanced students and the instructors meet to hear reports and discuss recent scientific articles.

Laboratory work.

The laboratory work is arranged for the purpose of familiarising the student with the methods of research; the student begins by repeating methods and investigations of well-known experimenters, with any modifications that may be suggested, passing on to points of investigation left untouched by previous experimenters, and finally to the study of new methods and the prosecution of original research. Students taking physics as their chief subject for the degree of Doctor of Philosophy are expected to spend all the time possible in the laboratory. In the basement there is a constant-temperature vault designed for accurate comparison of lengths, etc., and the laboratory is provided with special rooms for magnetic optical, and electrical work.

POST-MAJOR COURSES.

Dr. Mackenzie offers in 1901-02 and again in 1903-04 the following post-major courses, open to graduate students:

Sound in Relation to Music.

Two hours a week during the first semester.

This course begins with a detailed mathematical discussion of the propagation of a sound wave. The work of Helmholtz and König is then taken up and its bearing on music considered. Most of the references for collateral reading are to the original articles.

Spectrum Analysis.

Two hours a week during the second semester.

The work of this course is at first a continuation of that part of the major course dealing with the same subject. Then follows a study of the methods of spectrum analysis and the distribution of spectrum lines.

Dr. Huff offers in 1902-03 the following post-major course open to graduate students:

Electricity and Magnetism.

Two hours a week throughout the year.

This course is partly a continuation of the work of the major physics course, and partly an introduction to the theory of electrical measurements. The mathematical development of the theory is subordinated to the discussion of the classic experiments upon which the theory is based. The student is required to read the original papers of such investigators as Faraday, Ampère, Maxwell, etc., and the laboratory work is in part a repetition by the student of some important piece of experimental investigation chosen for its value in training, in method, in manipulation and in close observation.

Chemistry.

The instruction in this department is under the direction of Dr. Elmer P. Kohler, Professor of Chemistry, Dr. David Wilbur Horn, Associate in Chemistry, and Miss Gertrude Langden Heritage, Demonstrator in Chemistry.

GRADUATE COURSES.

The advanced courses in chemistry consist of lectures upon inorganic, organic, and physical chemistry, seminary work, reports upon current chemical literature, and laboratory exercises. In the laboratory work the students are required to become familiar with the literature bearing upon the subjects they are studying, and it is therefore necessary for them to have a reading knowledge of French and German.

The lecture courses are varied from year to year to meet the requirements of students and to form a consecutive course for those who wish to make chemistry the chief subject in the examination for the degree of Doctor of Philosophy. Such students may specialise either in organic chemistry, under the direction of Dr. Kohler, or in inorganic and physical chemistry, under the direction of Dr. Horn, but students who make organic chemistry the major subject of examination must take physical chemistry as one of their minor subjects, and students who make inorganic chemistry the major subject, must take organic chemistry as one of the minor subjects.

Dr. Kohler conducts in each year the following graduate seminary:

Chemical Seminary, Organic Chemistry. *One hour a week throughout the year.*

The students who specialise in organic chemistry present formal reports upon assigned topics in organic chemistry.

Dr. Kohler offers in 1902-03 the following graduate course:

Advanced Organic Chemistry. *Three hours a week throughout the year.*

Dr. Horn conducts in each year the following graduate seminary:

Chemical Seminary, Inorganic Chemistry.

One hour a week throughout the year.

The lectures are on structural inorganic chemistry, including the latest theories on the structure of inorganic compounds (stereometric isomerism).

Dr. Horn offers in 1901-02 and again in 1903-04 the following graduate course:

Physical Chemistry.

Three hours a week throughout the year.

The lectures give a complete survey of the subject, including relations of mass and volume, thermo-chemistry, theory of solutions, Goldberg and Waage's mass law, reaction velocities, and chemical equilibria.

The laboratory work in connection with the course includes the determination of specific gravities of solids, liquids, and gases, calorimetry, the use of the polariscope and refractometer and the study of the conductivity of electrolytes, standardisation and calibration of instruments, determination of vapor density and molecular weights, electro-chemical measurements.

Dr. Kohler and Dr. Horn together conduct the journal club.

Journal Club.

One hour a week throughout the year.

The advanced students, with the instructors, meet to hear reports and discussions on recent scientific articles.

POST-MAJOR COURSES.

Dr. Kohler offers in 1901-1902 and again in 1903-04 the following post-major course, open to graduate students:

Organic Chemistry, selected topics.

Three hours a week throughout the year.

The object of this course is to lay the foundation for independent work in organic chemistry. The lectures begin with a study of current problems as illustrated by some particular class of organic compounds. This is followed by a discussion of the laboratory methods available for the solution of such problems.

The laboratory work is varied to meet the wants of the individual students. In general the student begins with the preparation of some of the more important substances that are discussed in the lectures. This is followed by organic analyses, molecular weight determinations, and the transformations necessary to establish the structural formulas of the substances prepared. In the second semester some elementary problem in organic chemistry is assigned to each student.

Dr. Horn offers in 1902-03 and again in 1904-05 the following post-major course, open to graduate students:

Advanced Inorganic Chemistry.

Three hours a week throughout the year.

In this course the general subject matter of inorganic chemistry is reviewed and developed. Special attention is paid to theoretical considerations and their application to the facts observed by the student in the laboratory. A certain number of lectures are devoted to the history of the science, tracing it from the earliest times to the present day and dwelling particularly on modern theories.

The laboratory work in this course begins with inorganic preparations; advanced problems in quantitative analysis are then taken up, including the calibration and standardisation of apparatus, analysis of water, milk, butter, commercial products, etc. Finally molecular weight determinations are made by vapor density, freezing point, and boiling point methods.

Geology.

The instruction in this department is under the direction of Dr. Florence Bascom, Associate in Geology.

The instruction offered in geology consists of a major course in geology of five hours a week for two years, a post-major course in

petrography arranged for undergraduate students desiring to specialise in geology, and three graduate courses of five, two, and three hours a week respectively. Courses amounting to ten hours a week of lectures are offered in each year, the subjects changing from year to year.

The post-major course is designed to train the student in petrographic methods for the exact determination of rock species and rock families and is an essential preliminary to research work in the science.

The graduate course in petrology should be preceded by the major and post-major courses or their equivalents and is intended primarily for graduate students wishing to make geology a major subject for the degree of Doctor of Philosophy. The graduate course in mineralogy is intended to meet the needs of graduate students in chemistry who wish to make mineralogy a minor subject for the degree of Doctor of Philosophy. It is open to all graduate students who have had previous training in chemistry. The graduate course in palæontology is designed for graduate students in biology who wish to make palæontology a minor subject for the degree of Doctor of Philosophy. Its close affiliation with biology renders it a natural supplement to graduate work in that science.

Excellent illustrative material for these courses is furnished by the geological collection of the college and the private collection of the instructor, which contain over three thousand fossil, mineral, and rock specimens. The department is also fortunate in its proximity to the collections of the Academy of Natural Sciences of Philadelphia. Within easy reach of the college there are excellent collecting fields for fossil, mineral, and rock specimens.

GRADUATE COURSES.

Dr. Bascom offers the following graduate courses:

Lectures on Petrology.

Two hours a week throughout the year.

Field work.

Three hours a week throughout the year.

Laboratory work.

Three hours a week throughout the year.

The lectures deal with the problems of metamorphism of both aqueous and igneous rocks. The megascopic and microscopic structures, and the criteria determining the origin, classification, geographical distribution, and geological occurrence of metamorphic rocks are treated. Direction is given in research-work, map making, and advanced field work. The amount of laboratory work, field work, and private reading required makes the course the equivalent of five hours a week.

Lectures on Mineralogy.

Two hours a week throughout the year.

Laboratory work.

Two hours a week throughout the year.

This course opens with lectures on morphological crystallography, illustrated by models of crystal forms and accompanied by problems in crystal projections and construction and in the determination of indices by zones; there are also lectures on molecular and dynamical physical crystallography; optical crystallography and optical methods of mineral determination are treated in detail. A large portion of the second semester is devoted to descriptive mineralogy and the discussion of important mineral species. The lectures are illustrated by minerals, and the student is encouraged to make her own collection.

In the laboratory opportunity is given for the study of crystal forms, optical methods of mineral determination, and mineral species.

Williams's *Crystallography* and the works of Hintze, Groth, Tschermak, and Dana are used as reference books.

Lectures on Palæontology.

One hour a week throughout the year.

Laboratory work.

Five hours a week throughout the year.

It is the aim of this course to give a systematic review of the fossil remains of the animal and vegetable kingdoms, to make a detailed study of one or more of the more important classes, such as the Brachiopoda and Mollusca, and finally to emphasise the principles of palæontology and the bearing of this science on the doctrine of evolution. This three-fold purpose is accomplished largely by required reading and laboratory study of fossil specimens. Nicholson and Lydekker's *Manual of Palæontology*, Bernard's *Eléments de Paléontologie*, and Zittel's *Handbuch der Palæontologie* furnish the basis for systematic study. Monographs and State Reports constitute a large amount of special literature; use is made toward the close of the course of H. S. Williams's *Geological Biology* and Cope's *Primary Factors of Organic Evolution*; Zittel's palæontological charts are used in further illustration. Through the co-operation of the biological department students of palæontology are enabled to make constant comparison between fossil and living forms and thus by inference to reconstruct the entire organism of type forms.

POST-MAJOR COURSE.

Dr. Bascom offers the following post-major course, open to graduate students:

Lectures on Petrography.

Three hours a week throughout the year.

Laboratory work.

Two hours a week throughout the year.

Field work.

Three hours a week throughout the year.

During the first semester the lectures deal with the principles of optical crystallography, the optical means of mineral determination, and the microscopical characters of rock-forming minerals. In the second semester the structure, composition, characters, origin, geographical distribution, and geological associations of the igneous rocks are treated. Petrographical investigation in the field and laboratory is included in the course. The works of Groth, Rosenbusch, Zirkel, and Michel Lévy are used for reference.

MAJOR COURSE.

Dr. Bascom offers in each year the following undergraduate course, open to graduate students:

Lectures on Physiography, Lithology and Structural Geology.

Three hours a week throughout the year.

Laboratory work.

Two hours a week throughout the year.

Field work.

Three hours a week throughout the year.

The lectures first deal with physiography, and discuss the character and action of the forces which control the landscape; subsequently the constitution and structure of the earth's crust are treated. The lectures are illustrated by mineral, rock, and fossil specimens and by charts, photographs, wooden models, and geographical relief models. No text-book is used, but the best English, German, and French manuals are accessible for reference, and students are expected to provide themselves with Scott's *Introduction to Geology*.

In the laboratory the student is first occupied with the study of crystal forms and with the determination of minerals and rocks. Geologic structures are then studied by means of models, photographs, and natural illustrations; geological maps are interpreted and sections drawn; finally the student gains familiarity with the typical flora and fauna of the successive geologic formations.

For the field work, excursions are made into the immediate neighborhood on Mondays from 2 to 5 P.M. during the autumn and spring. As the course progresses, more extended excursions may be taken among the crystalline rocks of the South Mountain Range and the fossiliferous formations of the Coastal Plain. On these excursions instruction in field geology is given and material for further study is collected. Reports of the areas covered are required of the students, and the excursions count as two hours of lectures. When the excursions are prevented by inclement weather required reading amounting to three hours is substituted. During the winter months journal meetings replace the field excursions.

The lectures, field work, and laboratory work make up together a five hours' course requiring the usual outside preparation of a five hours' lecture course.

Dr. Bascom offers the following undergraduate course, open to graduate students who have taken the preceding course, or its equivalent:

Lectures on Structural and Historical Geology.

Three hours a week throughout the year.

Laboratory work.

Two hours a week throughout the year.

Field work.

Three hours a week throughout the year.

During the first semester the lectures deal with the principles by means of which the structures and metamorphism of the earth's crust may be investigated. In the second semester the chronological succession and distribution of the formations of the crust are discussed. The publications of the U. S. Geological Survey and the works of Majorie and Heim are used for reference.

Biology.

The instruction in this department is under the direction of Dr. Thomas Hunt Morgan, Professor of Biology, Dr. Joseph W. Warren, Associate Professor of Physiology, and Dr. Harriet Randolph, Demonstrator in Biology and Reader in Botany.

GRADUATE COURSES.

The advanced courses are varied from year to year, so as to form a consecutive course for students that wish to make biology one of the chief subjects of the examination for the degree of Doctor of Philosophy. Such students may specialise either in animal morphology under the guidance of Dr. Morgan, or in animal physiology under the guidance of Dr. Warren.

Dr. Morgan offers in 1901-02 the following graduate course :

Problems in Regeneration.

One hour a week throughout the year.

In this course of lectures the main problems in the regeneration of living things are discussed, and the theories that have been advanced to account for the phenomena are considered. The attempts that have been made to find a satisfactory statement of the doctrine of vitalism are critically examined.

Dr. Morgan offers in 1902-03 the following graduate course :

Lectures on Problems in Embryology.

One hour a week throughout the year.

The isotropy of the egg and the relation of cleavage to differentiation are studied. The evidence for the "germ layer" theory is examined, and larval forms are considered in reference to their value in phylogeny.

Dr. Morgan offers in 1903-04 the following graduate course:

Critique of Darwin's Theory of Natural Selection.

One hour a week throughout the year.

The evidence for and against the theory of natural selection is critically examined. The method of Darwinism is also considered in regard to its value as a scientific procedure. Amongst the critics of Darwin's theory, special attention is paid to Albert Wigand.

Dr. Warren offers in each year a graduate course in Physiology:

Physiology.

One hour a week throughout the year.

Some special and limited subject is discussed with considerable detail. In addition to the lectures, but not necessarily in connection with them, students may undertake research work in the laboratory or participate in such laboratory exercises as are suited to their needs or previous training.

The lectures in 1897-98 dealt with selected problems of respiration and their bearing on the problems of metabolism.

The lectures in 1898-99 dealt with the physiology of the special senses.

The lectures in 1899-1900 dealt with the structure of the ear and its functions. During a portion of the second semester the lectures were on the physiology of the special senses (smell, taste).

The lectures in 1900-01 dealt with the problem of animal heat; the questions connected with the thermometry and calorimetry of the mammalian body were discussed. During the second semester a few lectures on the history of animal physiology were given.

The lectures in 1901-02 discuss the interstitial secretion of glands ("internal secretion")

In 1902-03 the problems of nutrition with special reference to the absorption and digestion of foods will be discussed.

Dr. Morgan and Dr. Warren together conduct the journal club, the seminary, and the laboratory work.

Journal Club.

One hour a fortnight throughout the year.

The advanced students and the instructors meet fortnightly for the discussion of topics of current biological literature.

Biological Seminary.

One hour a fortnight throughout the year.

The graduate students and the instructors meet fortnightly for the formal presentation of assigned topics.

Laboratory work.

There is no regular course of laboratory instruction for graduates. Each student desiring to devote a considerable portion of her time to such work is given an experimental problem for verification or extension. The nature of the work depends in each case on the qualifications of the student.

POST-MAJOR COURSES.

Dr. Morgan offers in 1901-02 and again in 1903-04 the following post-major courses, open to graduate students:

Comparative Anatomy of the Mollusca. *One hour a week during the first semester.*

The lectures are accompanied by demonstrations and laboratory work, and are intended to cover the ground of Lang's *Vergleichende Anatomie*, Part III., Mollusca. The course is intended to supplement the major course in zoology. Types of all the main groups of the Mollusca are carefully dissected in the laboratory.

Advanced Theoretical Zoology. *One hour a week during the first semester.*

The following topics were discussed: definitions of species, genera, and families; the basis of a natural classification; adaptation; sexual selection and sexual dimorphism; mimicry; different forms of homology; phylogeny and ontogeny.

The Structure of Protoplasm and of the Cell.

One hour a week during the second semester.

This course of lectures deals with the structure of protoplasm. The formation and division of the centrosome and of the nucleus, the mechanism of cell-division, and the maturation of spermatozoon and ovum are described. The evidence given by experimental embryology towards a solution of the problem of the structure of the egg-cell is carefully considered.

Dr. Morgan offers in 1902-03 and again in 1904-05 the following post-major course, open to graduate students:

Embryology. *One hour a week throughout the year.*

This course consists of lectures and laboratory work on the embryology of the vertebrates. The more important embryological problems are discussed in connection with the lectures. An attempt is made to present such fundamental questions as gastrulation, acquisition and loss of food-yolk, conrescence, etc. A course of laboratory instruction accompanies these lectures. The principal types of development described in the lectures are studied in the laboratory. The embryology of *Rana*, *Torpedo*, *Amphioxus*, *Ascidian*, *Chick*, and *Mammal* is carefully examined. After the study of these forms there is assigned to each student some elementary problem in embryology.

Dr. Warren offers in each year the following post-major courses, open to graduate students:

Advanced Physiology. *One hour a week throughout the year.*

The topics selected depend upon the previous training of the students, and as far as possible the preferences of the students are consulted. Occasional conferences are held for the discussion of essays prepared by the students and presenting the more important evidence concerning the fundamental problems of physiology. By this means it is hoped to familiarise the student with the literature and with the methods of investigation.

Lectures on the Structure and Function of the Central Nervous System.

One hour a week throughout the year.

This course may, under special circumstances, be taken at the same time as the major course.

Lectures and Demonstrations in Physiological Chemistry.

One hour a week throughout the year.

This course with the required amount of laboratory work is equivalent to a two-hour course. It treats of the problems of secretion and excretion, and also of the principal questions of nutrition in considerable detail and with reference to the more modern theories

relating to these processes. The lectures are intended to supplement those of the major year, and a preliminary training in chemistry equivalent to that obtained in the major course is required.

Human Osteology.

One hour a week throughout the year.

This course is intended for students preparing to study medicine ; it may also be taken by properly qualified students receiving special permission. Two hours laboratory work is required in connection with this course.

Dr. Morgan and Dr. Warren conduct laboratory work in connection with the above courses :

Laboratory work.

It is desirable that as much laboratory work as possible should be done in connection with the courses offered above. The object of the laboratory work is to give the student experience in the use of apparatus and in adapting it to research. Some special problem is assigned to each student ; at the end of the year the results of the work are presented in writing.

COLLEGE BUILDINGS.

The college buildings are situated at Bryn Mawr, in the suburbs of Philadelphia, five miles west of the city, on the main line of the Pennsylvania Railroad. The neighboring country is agreeable and very healthful, and towards the west there is a fine prospect of hills. The college grounds cover fifty acres, and include grass and clay tennis courts, a hockey ground, and a large athletic field and skating pond.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains the library, lecture-rooms, seminary-rooms and reading-rooms for graduate students, and the offices of administration.

In January, 1893, the scientific departments of the college were transferred to Dalton Hall, a stone building erected by the Trustees out of funds in large part contributed by the generosity of friends of the college. Dalton Hall is entirely occupied by the scientific departments, the special scientific libraries, and the private rooms of the professors of science. The first floor and the basement are reserved for physics, the second floor is reserved for biology, and the third floor for chemistry. The fourth floor contains the geological lecture-rooms and laboratories, and research-rooms for advanced students ; and the fifth floor laboratories for experimental psychology. In December, 1893, a greenhouse designed for the use of the botanical department was added to Dalton Hall as the gift of the alumnæ and students.

Around Taylor Hall are situated halls of residence for the accommodation of students. Plans and descriptions of the five halls of residence, Merion Hall, Radnor Hall, Denbigh Hall, and Pembroke Hall East and West, and plans of the academic buildings, Taylor Hall and Dalton Hall, are enclosed in the general program. Ample provision has been made in the basement of Merion Hall for the accommodation of bicycles, and music-rooms with sound-proof walls and ceilings are provided in the basement of Pembroke Hall East.

The Gymnasium, which is open for the use of students from 7 A.M. to 10 P.M. daily, contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather; a room for the director, with an adjoining room for the examination and record of the physical development of the students; and bathrooms for use after exercise. In the basement is a swimming tank, seventy-four feet long, twenty feet wide, and from four to seven and one-half feet deep, given in 1894 by the alumnae, students, and friends of the college, and well supplied with springing boards, life preservers, and other apparatus for the teaching of swimming. The gymnasium has been built in accordance with the plans of Dr. Sargent, is furnished with his complete apparatus, and is under the charge of a medical director and an assistant.

There is on the grounds, separated from the other buildings, a Cottage Infirmary or Hospital with accommodation for patients and nurses, and its own kitchen and bathrooms.

Near the college are a Western Union Telegraph Office, Adams Express Office, United States Money Order Office, and two banks. There are good roads in every direction. Horses for riding and driving may be kept at livery near the college, at a cost of twenty-five dollars a month.



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